

Enquiry Particulars	
Regional Office	EE - CED - II, CCU
Office Inviting Bids	EE - CED - II, CCU
Tender ID	150716
NIT/RFP NO	03/EE/CED-II/CCU/2026-27
Name of Work	Construction of 02 No. tennis court and 01 No. Basketball court at CASFOS, FRI, Dehradun.
Subwork/Packages	Civil work
Time Allowed	3 months
Tender Type	OPEN
Procurement Type	WORKS
Type of Work	Civil Works - Buildings
Category of Tendered	CIVIL
Estimated Cost	87,47,963
Bid Type	Percentage
Bid Submission Closing Date & Time	05/05/2026 15:00
Bid Validity Period (In Days)	30
Bid Validity Expiry Date	04/06/2026 15:30
Tender Notice Type	Standard Notice Tender
Competitive Bidding Type	NCB

Tender Inviting Authority Particulars	
Office Inviting Bids	EE - CED - II, CCU
Designation	Executive Engineer
Address	EE CCU Dehradun
Contact Details	9693020115
Email	eeced2ddn@gmail.com

EMD Details		
EMD(INR)	EMD In Favour Of	Mode of Payment
Rs. 1,74,959	Executive Engineer, CED-II, CCU, MoEF&CC, New Delhi	DD,FDR,BC,BG

Bid Openers						
Department User Name	Region	Mobile Number	Email	Designation	Certificate serial No	Certificate Expiry
Satya Prakash	EE - CED - II, CCU	9693020115	satya.prakash88@gov.in	Executive Engineer	135e25e9bcba	10/07/2027 12:08
Sameer Khanna	EE - CED - II, CCU	9891244858	sameerkhanna1203@gmail.com	Assistant Engineer	193718d75f	20/08/2027 07:31

Tender Documents				
S.No	File Name	File Description	File Size (in Bytes)	Uploaded Date
1	NIT 03.pdf	NIT 03	791777	27/04/2026 16:23

#### Mandatory Documents Details

S.No	Documents Required from Vendor	Document Type
1	Scanned copy of EMD in proper form.	Mandatory
2	Scanned copy of receipt of EMD.	Mandatory
3	Copy of Enlistment order of the Contractor in appropriate Class and Category in CPWD.	Mandatory
4	GST Registration Certificate of the state in which the work is to be taken up, if already obtained by the bidder or required undertaking.	Mandatory

#### Eligibility Documents Details

S.No	Documents Required from Vendor	Document Type
1	Copy of Enlistment order of the Contractor in appropriate Class and Category in CPWD.	Mandatory

#### Tender Covers

S.No	Cover Name	Bid Opening date	Dependent Cover Name
1	Single Bid	05/05/2026 15:30	

#### Single Bid

S.No	File Name	File Size(in Bytes)
1	150716-PercentageComposite1.xls	59392

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**Name of work: Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.**

**NIT No.: 03/EE/CED-II/CCU/2026-27**

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	This NIT contains 1 to 53 pages including this page.	

This NIT amounting to Rs. 87,47,963/- (Rupees Eighty-Seven Lakh Forty-Seven Thousand Nine Hundred Sixty-Three Only) is hereby approved.

Assistant Engineer (P), CED-II

Executive Engineer, CED-II

# **PART-A**

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING  
FORMING PART OF BID DOCUMENT**

The Executive Engineer, CED-II, Civil Construction Unit (CCU), Ministry of Environment, Forest & Climate Change (MoEF&CC), PO- New Forest, FRI Campus, Dehradun- 248006 (email- [eecced2ccu-mef@nic.in](mailto:eecced2ccu-mef@nic.in). Mo. 9693020115) on behalf of President of India invites online Percentage rate bids from approved and eligible contractors of CPWD in appropriate class and category for the following work:-

S. No.	NIT No.	Name of work and location	Estimated cost put to tender	Earnest Money	Stipulated Period of Completion	Last date & time of online submission of bid and other Documents as specified in bid document	Time & date of opening of bid
1	2	3	4	5	6	8	9
1	03/EE/CED-II/CCU/2026-27	Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.	<b>Rs. 87,47,963/-</b>	Rs. 1,74,959/-	03 Months	05.05.2026 upto 15:00 Hours	05.05.2026 upto 15:30 Hours

\* \*\*To be filled by Executive Engineer, CED-II, CCU

- 1) 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.
- 2) This information and Instructions for bidders posted on website shall form part of bid document.
- 3) 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 <https://etender.cpwd.gov.in> free of cost.
- 4) The bid can only be submitted after deposition of original EMD either in the office of Executive Engineer, CED-II, CCU, MoEF&CC, inviting bids or division office of any Executive Engineer, CCU within the period of bid submission and uploading the mandatory scanned documents such as Surety Insurance Bond, Account Payee Demand draft or Pay order or Bankers Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any scheduled Bank towards EMD issued in favour of “**Executive Engineer, CED-II, CCU, MoEF&CC, New Delhi**” receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE / AE (P)/AE/AAO), CCU and other documents as specified.

- 5) Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
- 6) The intending bidder must have valid Class-III digital signature to submit the bid.
- 7) On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- 8) Contractor can upload documents in the form of JPG format and PDF format.
- 9) Contractor must ensure to quote rate in the prescribed column. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
- 10) However, If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
- 11) If the agency is not registered with GST Department as applicable, he has to get registered himself with GST Department as applicable within one month from the date of receipt of award letter.
- 12) After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- 13) While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
- 14) The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
  - (i) The bidder is found ineligible.
  - (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
  - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
  - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

**List of Documents to be scanned and uploaded within the period of tender submission**

- 1) Scanned Copy of Surety Insurance Bond/ Account Payee Demand Draft /Treasury Challan / Pay order or Banker's Cheque / Deposit at Call Receipt / FDR / Bank Guarantee of any Scheduled Bank against EMD.
- 2) The original EMD should be deposited either in the office of Executive Engineer, CED-II, CCU, MoEF&CC, Dehradun inviting bids or division office of any Executive Engineer, CCU within the period of bid submission. (The EMD document shall only be issued from the place in which the office of receiving division office is situated) The EMD receiving Executive Engineer shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.

- 3) Copy of Enlistment order of the Contractor in appropriate Class and Category in CPWD.
- 4) GST Registration Certificate of the state in which the work is to be taken up, if already obtained by the bidder.

If the bidder has not obtained GST registration in the state in which the work is to be taken up, or as required by GST authorities, then in such a case the bidder shall scan and upload following undertaking along with other bid documents.

"If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by CCU, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CCU or GST department in this regard".

Executive Engineer, CED-II, CCU  
(For and on behalf of the President of India)

### CPWD 6 FOR E- TENDERING

Percentage rate bids are invited on behalf of President of India from approved and eligible contractors' composite category of CPWD for the work **Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.**

The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

1. The work is estimated to cost Rs. **87,47,963/-** This estimate, however, is given merely as a rough guide.
2. The General Conditions of Contract (GCC) 2023 for Construction work, Central Public Works Department will form part of the agreement. The GCC is available as a Govt. of India Publication. The Bidders should go through the various clauses of GCC thoroughly and quote their rates as per various terms and conditions of the GCC.
3. The time allowed for carrying out the work will be **03 (Three) months** 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.
5. 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 except General Conditions of Contract (GCC) can be seen on website <https://etender.cpwd.gov.in> or [www.cpwd.gov.in](http://www.cpwd.gov.in) free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.  
While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
7. Copy of Enlistment Orders and other documents as specified in the NIT along with Earnest Money Deposit and it's receipt (as per attached Annexure "A") shall be scanned and uploaded to the e-Tendering website within the period of bid submission.
8. (A) The contractors registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee any time.

(B) The bid submitted shall be opened at 3:30 PM on 05.05.2026.

(\*\*to be filled by EE)

9. Earnest Money in the form of Surety Insurance Bond or Account Payee Demand Draft or Treasury Challan or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **Executive Engineer, CED-II, CCU, MoEF&CC, New Delhi**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CCU within the period of bid submission.

The EMD receiving Executive Engineer (including NIT issuing EE/AE(P)/AE/AAO) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.



A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CCU and other documents scanned and uploaded are found in order.

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
  - (i) The bidder is found ineligible.
  - (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
  - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
  - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.
12. The description of the work is as follows:

**Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.**
13. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, 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 of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

14. The competent authority on behalf of the President of India 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 bidders shall be summarily rejected.
15. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
16. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
17. The contractor shall not be permitted to bid for works in the CCU Circle responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending 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 the Civil Construction Unit or in the Ministry of Environment, Forests and Climate Change. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of the Department.
18. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
19. The bid for the work shall remain open for acceptance for a period of 30 (Thirty) days from the date of opening of tenders. Further action against bidder shall be taken as per Declaration given by bidder in Annexure 'A' as attached with the tender document.
20. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
  - i) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
  - ii) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.
  - iii) General Conditions of Contract 2023 for Construction work, Central Public Works Department, as corrected up to last date of submission of bids.

**Executive Engineer, CED-II, CCU**  
**(For and on behalf of the President of India)**

**GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE**

<b>STATE</b>	<b>Uttarakhand</b>	<b>CIRCLE</b>	<b>SE, CCU, MoEF&amp;CC</b>
<b>BRANCH</b>	<b>B&amp;R</b>	<b>DIVISION</b>	<b>CED-II, CCU</b>

**PERCENTAGE RATE BID AND CONTRACT FOR WORKS**

Tender for the work **Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.**

To be submitted online by 3.00 PM on 05.05.2026.

The online Bid shall be opened in presence of tenderers who may be present at 3.30 PM on 05.05.2026 in the office of the Executive Engineer, CED-II, CCU, Dehradun.

\*\* To be filled by EE

**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, General Conditions of Contract (GCC), clauses of contract, Special conditions, Schedule of Rates, other documents and rules referred to in the contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India 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 acceptance for Thirty (30) days from the due date of its opening of bid and not to make any modifications in its terms and conditions.

Earnest money in the prescribed form is scanned and uploaded. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the Earnest Money deposited. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely, the said performance guarantee shall be a guarantee to execute all the works referred to in the bid documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in clause 12.2 and 12.3 (as modified) of the bid form.

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

Dated:

Signature of Contractor  
Postal Address ----- \*\*  
Telephone No. ----- \*\*  
Fax ----- \*\*  
E-MAIL ----- \*\*

Witness: Address:  
Occupation:

\*\* To be filled by Bidder

**ACCEPTANCE**

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs.....  
(Rupees.....  
.....)

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

- (a) ----- \*
- (b) ----- \*
- (c) ----- \*

Dated: -----\*

For & on behalf of President of India  
Signature.....\*.....  
Designation .....\*.....

\* To be filled by Executive Engineer

## **SCHEDULE – ‘A’, ‘B’, ‘C’, ‘D’, ‘E’ & ‘F’ FOR THE WORK (CIVIL WORK)**

### **SCHEDULE ‘A’**

Schedule of Quantities

As per separate sheets attached

### **SCHEDULE ‘B’**

Schedule of materials to be issued to the contractor:

S. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
.....NIL .....				

### **SCHEDULE ‘C’**

Schedule of Tools and Plants to be hired to the contractor:

S. No.	Description	Hire charges per day	Place of issue
1	2	3	4
.....-NIL .....			

### **SCHEDULE ‘D’**

Extra schedule for specific requirements/document for the work, if any:	As per tender documents
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### **SCHEDULE ‘E’**

Reference to General Conditions of contract	General Conditions of Contract 2023 for Construction work, in Central Public Works Department, as amended up to last date of submission of bids.
Name of Work	<b>Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.</b>
Estimated cost of the work	Rs.87,47,963/-
Earnest money	Rs. 1,74,959/-
Performance Guarantee	(a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
Security Deposit	2.50% (Two Point Five Zero percent) of tendered amount.

## SCHEDULE 'F'

### General rules and direction

Officer inviting tender	Executive Engineer, CED-II CCU, MoEF&CC, PO- New Forest, FRI Campus, Dehradun- 248006
Maximum percentage of quantity of items of work to be executed beyond which rates are to be determined in accordance with Clause 12.2 & 12.3	See at appropriate clause

### Definitions:

2(i)	(i) Engineer-in-Charge (for Civil Work)	Executive Engineer, CED-II, CCU, MoEF&CC or his successor-in-charge of work.
2(ii)	Accepting Authority	Executive Engineer, CED-II, CCU, MoEF&CC or his successor in charge of work.
2(iii)	Percentage on cost of materials and labour to cover all overheads and profits	7.5% for items of supply of materials and 15% for other items.
2(iv)	Standard Schedule of Rates	
	Civil Works	DSR-2023 with correction slips issued upto last date of submission of bids & Market rates.
2(v)	Department:	Civil Construction Unit, MoEF&CC
2(vi)	Standard CPWD Contract Form	CPWD form 7 of General Conditions of Contract 2023 for Construction work, Central Public Works Department, as modified and corrected up to last date of submission of bids.

<b>Clause 1</b>		
i)	Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance	7 Days
ii)	Maximum allowable extension with late fee@0.1% per day of Performance Guarantee amount beyond the period as provided in i)above	3 Days
<b>Clause 2</b>	Authority for fixing Compensation under Clause 2	Superintending Engineer, CCU, MoEF&CC or his successor
<b>Clause 5</b>	Number of days from the date of issue of letter of intent for reckoning date of start	10 Days

**Mile stones as per table given below** **Not Applicable**

Time allowed for execution of work: 03 (Three) Months

**Authority to decide:**

i) Authority to convey the decision of shifting of milestone and extension of time:	Executive Engineer, CED-II, CCU, MoEF&CC or his successor-in-Charge of work.
ii) Authority to decide rescheduling of milestones and extension of time.	Superintending Engineer, CCU, MoEF&CC or his successor-in-Charge of work.
iii) Shifting of date of start in case of delay in handing over of site	Superintending Engineer, CCU, MoEF&CC or his successor-in-Charge of work.

**Clause 5.4**

Schedule of rate of recovery for delay in submission of the modified programme in terms of delay days.

Sl. No.	Contract Value	Recovery per day (Rs.)
1	Less than or equal to Rs. 1 crore	500
2	More than Rs. 1 crore but less than or equal to Rs. 5crore	1000
3	More than Rs. 5 crore but less than or equal to Rs. 20crore	2500
4	More than Rs. 20 crore	5000

**Clause 6**

i) Clause applicable – 6	CMB
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**Clause 7**

Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	<b>(i) Rs 30 lakh</b>
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**Clause 7A**

Regarding applicability of labour laws:-Related to Labour license, registration of contractor with EPFO, ESIC and BOCW welfare board i/c Provident Fund	Yes Applicable
No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable as submitted by the Bidder to the Engineer-in-Charge.	

**Clause 8 A: Completion plans to be submitted by the contractor**

Authority to decide compensation on account if contractor fails to submit completion plans	Executive Engineer, CED-II, CCU, MoEF&CC or his successor
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**Clause 10 A**

List of testing equipment to be provided by the contractor at site lab.

- i. Measuring tape 3 m.- 2 Nos., Steel tape- 30 m, Vernier calipers, plumb bob, spirit level minimum 30 cm long with 3 bubbles, wire gauge (Circular type) disc, steel foot rule, long nylonthread, magnifying



glass, screw driver 30 cm long, ball pin hammer 100 gms, measuring cylinder, weighing machine, sieve set for sieve analysis, plastic bags for taking samples etc.

**Clause 10 B**

<b>Clause 10B (ii)</b>	
Whether Clause 10 B (ii) shall be applicable	No

**Clause 10 C**

Whether Clause 10 C shall be applicable	Not Applicable
Component of labour expressed as percent of value of work	Nil

**Clause 10 CA: Not applicable**

**Clause 10 CC: Not applicable**

**Clause 11 :**

Specifications to be followed for execution of work (Civil)	:	CPWD Specifications 2019 Volume-I and II with correction slips issued upto last date of submission of bids
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**Clause 12 : Type of Work**

**Original Work**

12.2(c)	Deviation limit beyond which clauses 12.2 (c) shall apply for building work.	:	100%
	i) Deviation limit beyond which clauses 12.2 (c) shall apply for foundation work(except items mentioned in earth work sub head in DSR and related items)	:	100%
	ii) Deviation limit for items mentioned in earth work sub head of DSR and related items	:	100%

**Clause 16 :**

Competent authority for deciding reduced rates	:	Superintending Engineer, CCU, MoEF&CC or his successor-in-charge of work.
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**Clause 18 :**

List of Mandatory Machinery, tools & plants to be deployed by the contractor at site:-

S No.	Machinery and T & P	Min. Requirement
As per site requirement		

**Clause 19**

<b>Clause 19 C</b>	Authority to decide penalty for each default	Executive Engineer, CED-II, CCU, MoEF&CC or his successor.
<b>Clause 19 D</b>	Authority to decide penalty for each default	Executive Engineer, CED-II, CCU, MoEF&CC or his successor.
<b>Clause 19 G</b>	Authority to decide penalty for each default	Executive Engineer, CED-II, CCU, MoEF&CC or his successor.

**Clause 25: Settlement of disputes by Conciliation and Arbitration.**

Conciliator:	:	SE, CCU, or his legal successor or Assignee thereof
Arbitrator Appointing Authority	:	CE, CCU, MoEF&CC or his legal successor or Assignee thereof
Place of Arbitration	:	New Delhi

**Note:** No party shall be represented before the Conciliator by an Advocate/ legal council etc.

**Clause 32 : Requirement of Technical Representative(s) and Recovery Rate**

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32 per person	
						Figures (Rs. Per person)	Words (Rs. Per person)
1	Graduate Engineer Or Diploma Engineer	Civil	Project Manager cum planning/ quality/site/billing Engineer	2 or 5 years respectively	1 No	15,000/- Per month Per person	Fifteen Thousand Per Month

- 1) Engineer(s) deployed as per stipulation in the contract looks after only the work under contract and no other work and is available fully during execution of work.
- 2) Even if contractor (or partner in case of firm/company) is himself/herself an Engineer, it is necessary on part of contractor to employ Engineer(s) for the supervision of the work as per stipulation.

**Clause-38: -**

(i)	(a)	Schedule/Statement for determining Theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates	DSR 2023 with Amendments/ Correction slips up to last date of submission of Tender
		Variations permissible on theoretical quantities.	
(ii)	(a)	Cement	
		for works with estimated cost put to tender is not more than 25 Lacs.	3% (Three percent) plus/minus
		for works with estimated cost put to tender is more than 25 Lacs.	2% (Two percent) plus/minus.
		Bitumen all works	2.5% (Two- point five percent) plus only & nil on minus side.
	(b)	Steel reinforcement and structural steel section for diameter, section and category.	2% (Two percent) plus/minus.
	All other materials	Nil.	

**RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION**

S. No.	Description of item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond permissible variation not permitted
1.	Cement OPC 43 grade /PCC	-	-
2.	Steel reinforcement bars	-	-
3.	Structural steel	-	-

- Nothing extra shall be paid for excess use of materials beyond the theoretical consumption.
- Less use of materials from the theoretical consumption is not permitted.

**PROFORMA FOR THE RECEIPT TO BE ISSUED BY THE EXECUTIVE ENGINEER  
RECEIVING THE EMD**

Receipt of deposition of original EMD (drawn in favour of <b>Executive Engineer, CED-II, CCU, MoEF&amp;CC, New Delhi</b> ) (Receipt No. .... / date.....)	
Name of work	: <b>Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.</b>
NIT No	: 03/EE/CED-II/CCU/2026-27
Estimated Cost	: <b>Rs. 87,47,963/-</b>
Amount of Earnest Money Deposit	: Rs. 1,74,959/-
Last date of submission of bid	: 05.05.2026
** To be filled by EMD receiving Executive Engineer	
Name of contractor	:
Form of EMD	:
Amount of Earnest Money Deposit	:
Date of Submission of EMD	:
	(Signature) Name and Designation of EMD receiving officer (EE/AE(P)/AE/AAO, MoEF&CC) along with office stamp

**(On non-judicial stamp paper of minimum Rs. 100)**

(Guarantee offered by Bank to CCU, MoEF&CC in connection with the execution of contracts)

**Form of Bank Guarantee for Earnest Money/Performance Guarantee/Security Deposit**

Whereas The Executive Engineer, CED-II, Civil Construction Unit (CCU), Ministry of Environment, Forest & Climate Change (MoEF&CC), PO- New Forest, FRI Campus, Dehradun- 248006 (email- eeced2ccu-mef@nic.in. Mo. 9693020115) on behalf of the President of India (hereinafter called "The Government") has invited bids under .....(NIT) for .....(Name of work) The Government has further agreed to accept irrevocable Bank Guarantee for Rs .....(Rupees ..... only) valid upto..... (date)\*..... as **EarnestMoney** from ..... (name and address of contractor) (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR

Whereas The Executive Engineer, CED-II, Civil Construction Unit (CCU), Ministry of Environment, Forest & Climate Change (MoEF&CC), PO- New Forest, FRI Campus, Dehradun- 248006 (email- eeced2ccu-mef@nic.in. Mo. 9693020115) on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number ..... with ..... (Name and address of the contractor)..... (hereinafter called "the Contractor") for execution of work ..... (name of work)..... The Government has further agreed to accept an irrevocable Bank Guarantee for Rs .....(Rupees ..... only) valid upto ..... (date) ..... as **Performance Guarantee/security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

- 1) We ..... (indicate the name of the bank) ..... (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs ..... (Rupees ..... only) on demand by the Government within 10 days of the demand.
- 2) We ..... (indicate the name of the Bank) ..... do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees ..... only).
- 3) We ..... (indicate the name of the Bank) ....., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
- 4) We..... (indicate the name of the Bank) ..... further agree that the Government shall have the fullest liberty without our consent and without affecting in any

manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

- 5) We ..... (indicate the name of the Bank) ..... further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
- 6) This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
- 7) We ..... (indicate the name of the Bank) ..... undertake not to revoke this guarantee except with the consent of the Government in writing.
- 8) This Bank Guarantee shall be valid up to ..... unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs ..... (Rupees ..... only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.....

Witnesses:

1. Signature.....  
Name and address

Authorized signatory  
Name  
Designation  
Staff code  
no. Bank seal

2. Signature .....  
Name and address

\*Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.

In paragraph-1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be.

# PART-B

## **GENERAL CONDITIONS FOR CIVIL WORK**

- 1.0 The contractor has to make his own arrangement for all the materials required for the work and get them approved from the Engineer-in-charge before using the same in the work.
  - 1.1 The dismantling wherever required shall be done in a manner that no other portions of the building or its fixtures are damaged. If any damage is done to the building it will be made good by the contractor at his own cost and no claim whatsoever will be entertained on the work.
  - 1.2 The contractor must get himself acquainted with the proposed site for the works and study specifications and conditions carefully before tendering, no claim whatsoever on this account shall be entertained later on.
  - 1.3 All incidental charges of any kind for the materials to be arranged by the contractor whatsoever including cartage, storage, cutting and wastage etc. shall be borne by the contractor himself and nothing extra will be paid to him on this account.
  - 1.4 The contractor shall have to carry out the work according to the programme mutually decided between him and the Engineer-in-charge of the work. No claim for idle labour on any account shall be entertained.
  - 1.5 Necessary deductions such as income tax, GST, Labour cess etc. shall be recovered from gross amount of contractor's each bill.
  - 1.6 Contractor will have to make his own arrangement for tools and plant & machinery required for the work and department will not supply any tools and plants.
  - 1.7 The contractor should study the General Conditions of Contract before tendering. This shall be the part of the agreement. It is available in the office of EE/AE & in market.
  - 1.8 Samples of various materials required for testing shall be provided free of charges by contractor. All expenditure required to be incurred for taking the sample, conveyance, packing, sealing, loading, unloading etc. shall be borne by the contractor himself. In testing fresh sample of alternate material will be made available and testing charges shall be deducted from the payment of contractor for such materials, which have failed in testing. The cost of all tests shall be borne by the contractor.
  - 1.9 Any damages done to the electric fittings, installations, while using them shall be made good by him at his own cost.
  - 1.10 No residential accommodation shall be provided to any of the staff engaged by the contractor.
  - 1.11 The rates include all leads, lifts, heights etc. No extra payment shall be made on any account.
  - 1.12 The quoted rates should be inclusive of all taxes including GST and nothing extra shall be paid over quoted rates.
- 2. Directives on Air Pollution from construction and demolition activity (DG/SE/CM/CON/Misc./02 dated 16.03.2016).**
- 2.0 The contractor shall not store/dump construction material or debris on metalled road.
  - 2.1 The contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metalled road. This area shall not cause any obstruction to the free flow of traffic / inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.



- 2.2 The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and / or other similar material to ensure that no construction material dust fly outside the plot area.
- 2.3 The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes /or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that en route their destination, the dust, sand or any other particles are not released in air /contaminate air.
- 2.4 The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
- 2.5 The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relating to dust emission.
- 2.6 The contractor shall ensure that C&D waste is transported to the C&D Waste site only and due record shall be maintained by the contractor.
- 2.7 The contractor shall compulsory use of wet jet in grinding and stone cutting.
- 2.8 The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.
- 2.9 The contractor shall carry out on-Road- Inspection for black smoke generating machinery. The contractor shall use cleaner fuel.
- 2.10 The contractor shall ensure that all DG sets to comply with emission norms notified by MoEF&CC.
- 2.11 The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction.
- 2.12 In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
- 2.13 The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precautions to ensure that no dust particles are permitted to pollute air quality as a result of such storage.
- 2.14 The paving of the path for plying of vehicles carrying construction material is more permanent solution to dust control and suitable for longer duration projects.
- 3.0 The provisions of "Construction and Demolition Waste Management Rules 2016 in exercise of powers conferred by Environment (Protection) Act 1986 (available at web address [www.moef.gov.in](http://www.moef.gov.in)) as notified by Ministry of Environment, Forests & Climate Change vide notification dated 29.03.2016 and incorporated vide OM No. DG/CON/Misc./04 dated 23.01.2017 issued by the Office of DG, CPWD, MoUD is to be complied with.

#### **4.0 Water for construction purpose**

- 4.1 For water supply, the contractor shall make his own arrangements including boring of tube well, if necessary and nothing extra shall be paid by the department for arrangement of water or on its treatment. Necessary permission from the concerned authorities for boring of tubewell if required shall be taken by the contractor.
- 4.2 The contractor shall get the water tested with regard to its suitability and conforming to the relevant IS code. The contractor shall obtain the written approval from the Engineer-in-charge before he proceeds for using the same for execution of work. The water testing charges shall be borne by the contractor.

#### **5.0 Conditions for procurement of materials for all items to be executed for the work :-**

- 5.1 The procurement of total quantity of materials for all items to be executed for the work shall be made by the contractor along with original Invoice/Voucher/Cash-Memo. The record of all the original Invoice/Voucher/Cash-Memo in chronological order will be maintained by the authorized representative of the Engineer-in-Charge. The Engineer-in-Charge will check therecord periodically to see that it is maintained properly.
- 5.2 Payment to be made only after verification of authenticity/genuineness of materials from concerned firm/Manufacturer.
- 5.3 If materials procured by the contractor are not found genuine/conforming to agreement provisions/specifications, then materials procured shall be removed from store/ site immediately by the contractor.

#### **6.0 In case of any discrepancy, the order of preference shall be as under -**

1. Nomenclature of the item as per schedule of quantities.
  2. General/Additional conditions attached with the contract document.
  3. Additional Specifications attached with the contract document.
  4. Drawings.
  5. CPWD Specifications 2019 (Vol. I & II) with correction slips upto last date of submissionof bids.
  6. BIS Specifications (latest version).
  7. Manufacturer's specifications.
  8. Decision of the Engineer-in-charge.
  9. Sound Engineering practices.
- 7.0 The contractor shall keep at his own cost all publications of relevant Indian standard (BIS) applicable to the work at site. In case of non-compliance, these standards will be purchasedby the Engineer-in-charge and actual cost of purchase will be recovered from the Bill of the Contractor.
- 8.0 Senior Officers of CCU/Ministry/Client Department may inspect the on-going work at site at any time with or without prior intimation. The contractor shall facilitate them in inspection.
- 9.0 Jurisdiction of Court - Courts at Delhi alone shall have the jurisdiction to decide any dispute arising out of or in respect of this contract.

## **ADDITIONAL CONDITIONS FOR CIVIL WORK**

1. Inspection of materials and work: All the materials brought to the site by the contractor for use in the work as well as fabricated work shall be subject to inspection and approval by the Engineer-in-charge.
2. Removal of rejected materials: In case any materials are rejected by the Engineer-in-Charge, the same shall be removed from the site within 48 hours, failing which the same may be got removed by the Engineer-in-charge at the risk and cost of the contractor.
3. Manufacturer's Test Certificate: The contractor shall, if required by the Engineer in charge produce Manufacturer's Test Certificate for any material of particular batch of materials supplied by him. The test(s) carried out shall be as per relevant specifications/ BIS Code.
4. Contractor should ensure the availability of material at site duly tested as per specifications and approved by the Engineer-in-charge. In no case the dismantling etc. should be carried out before the availability of approved quality of material. If contractor fails to follow this instruction a penalty of Rs.200/- per day delay for this fault shall be recovered. The decision of Engineer-in-Charge shall be final and binding.
5. Wherever the malba / rubbish occurs on account of work at upper floors / roof, the same shall be brought down through stair case or with some mechanical arrangement only and shall not be thrown to the ground directly from upper floors and has to be disposed off at specified dumping point in the area.  
  
In no case malba / rubbish / unserviceable material or Construction material shall be stacked or dumped near the staircase /path /road berms/road/lawn/outside premises even for temporarily purpose.
6. If the contractor fails to comply the above conditions for removal / disposal of malba, a fine of Rs.500/- for each fault per day shall be recovered from the contractor. The department may remove the malba so generated and dumped, by issue of a notice or instruction through site order book, by Junior Engineer/Assistant Engineer/ Engineer-in-charge, concerned and a recovery of Rs.300/- per cum shall be made from the contractor. No claim / dispute shall be entertained on these conditions at any stage either during execution of work or after completion of work and decision of the Engineer-in-charge shall be final and binding.
7. Unless and until specified in the item the contractor shall make his own arrangement for lifting / hoisting / placing of steel girders / steel sections by suitable arrangement either manually or by mechanical crane etc. as approved by the Engineer-in-charge upto all heights in the building at no extra cost.
8. The contractor shall stack the building materials away from the building/site as approved by the Engineer-in-charge and nothing extra for lead / lift of material for bringing the materials manually in the premises shall be paid.
9. Before starting the work the contractor shall chalk out a programme in consultation with the Junior Engineer /Assistant Engineer/ Engineer-In-charge as to inform the occupants at least one week ahead. The contractor shall have to adhere to this programme failing which contractor shall be responsible for any inconvenience caused to the occupants. In order to ensure that the work is carried out according to the programme drawn up the contractor shall ensure adequate supply of the material and employ required labour strength for execution of work. In case contractor fails to arrange / employ adequate labour to stick the programme, the Engineer-in-charge may supplement the labour and cost of the labour shall be recovered from the contractor after issue of one day's notice to the contractor. No claim for idle labour shall be entertained. The contractor shall depute his representatives daily at site of work for the record of the department.
10. The contractor shall prepare sample(s) of all items which should be got approved from the Engineer-in-charge. Only on acceptance of sample work, contractor will be allowed to commence the work and sample is to be preserved by contractor till the whole work is completed. The quality of work should confirm to the approved samples.

11. The contractor and/or his authorized representative should see the site order book everyday and get the compliance noted by the J.E. /A.E. / Engineer-in-charge.
12. The substandard work shall be rejected out-rightly and nothing shall be paid for it. The decision of the Engineer-in-charge shall be final and binding in this regard.
13. Nothing extra shall be paid to the contractor for excess consumption of materials in case of material arranged by him.
14. Any damage done to the existing structure shall be made good by the contractor at his own risk and cost.
15. The rates of all items of work shall unless clearly specified include the cost of all labour, material and other aspects involved in the execution of work.
16. The contractor shall make his own arrangement for getting the permission to ply the trucks from the traffic police.
17. The contractor shall be responsible for behavior and conduct of his workers. No worker with doubtful integrity or having a bad record shall be engaged by the contractor.
18. The contractor shall have to remove all splashes after completing the work. In case the splashes are not removed by the contractor, the same shall be got removed by the Engineer-in-charge and necessary recovery for the cost of removal of splashes shall be made from the contractor.

**19. COMPLIANCE WITH LOCAL BYE-LAWS, RULES AND REGULATIONS**

The work shall be carried out in the manner complying in all respects with the requirements of relevant bye-laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account. The contractor shall give due notices to the Municipality, Gram Panchayat, Police and /or other authorities as may be required under the law / rules under force and obtain all requisite licenses / permissions to carry out the work and pay all charges which may be leviable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.

In the event of any restrictions being imposed by security and traffic agencies or any other authority having jurisdiction in the area on the working or movement of labour / material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on this account. The loss of time on this account, if any, shall have to be made up by generating additional resources etc.

**20. PROTECTION OF EXISTING STRUCTURES / SERVICES AND INTERFERENCE WITH OTHER WORKS**

The contractor shall protect existing drains, pipes, cables, overhead wires, sewer lines, water lines and other services encountered in the course of execution of the work and shall repair any damage caused by him at his 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.

The contractor shall carry out 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. 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.

**21. RECESSES, HOLES, OPENINGS, ETC.**

The contractor shall leave such recesses, holes, openings, etc. as may be required for the water supply, drainage, electric, air-conditioning and other related works and the contractor shall fix the same at the time of casting of concrete, stone work, brick work etc.

**22. TEMPORARY ELECTRICITY CONNECTION FOR EXECUTION OF WORK**

The contractor shall make his own arrangements for temporary electric connection, if required and make necessary payment including electric charges for its use direct to the authority concerned. The Engineer-in-charge will provide all possible assistance by way of reasonable recommendation for obtaining electricity connection to the concerned authorities but bears no responsibility for the same.

**23 CONDITIONS FOR WATER SUPPLY, SANITARY INSTALLATIONS AND DRAINAGE WORK**

23.1 The contractor shall only employ experienced and specialized workmen for carrying out the Water supply, sanitary installations and Drainage work.

23.2 Five years Guarantee bond in prescribed proforma attached with NIT shall be submitted by the contractor to meet his liabilities under the Guarantee Bond. The sole responsibility about quality of Water supply, Sanitary installations and Drainage work shall rest with the contractor.

23.3 Ten percent of the cost of Water supply, Sanitary installations and Drainage work shall be retained as security deposit and the amount so withheld would be released after five years from the date of completion of the entire work under the agreement, if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done by the Engineer-in-charge at the risk and cost of contractor.

However, the security deposit deducted may be released in full against Bank Guarantee of equivalent amount in favour of Engineer-in-charge, if so decided by the Engineer-in-charge. The security deposit against this work shall be in addition to the security deposit mentioned elsewhere in contract form.

**24. Protection of existing service lines during excavations of trenches:-**

The contractor shall protect existing service lines of water supply, sewer, electrical and telephone conduits during excavation of trenches. In case of damaged to these service lines during excavations the same shall be restored by agency at his own cost.

25. For specialized works of **Acrylic Synthetic Tennis Courts**, the contractor shall associate with specialized agencies or firms for execution. The contractor shall provide a specific guarantee and remain responsible for rectifying any defects that arise in the executed work during the stipulated guarantee period of **10 years**.

The form of the guarantee to be executed by the contractors is given as per annexure-VI attached.

10% of the amount pertaining to **Acrylic Synthetic Tennis Court** work as security deducted from the bills of the contractors will be refunded after expiry of guarantee period in accordance with the terms of the contract in this behalf.

**26. ELIGIBILITY CONDITIONS FOR APPROVAL OF SPECIALIZED AGENCIES:**

The Contractor(s) shall submit his proposal for the approval of the Engineer-in-Charge, the names of specialized agencies of repute along with their technical capability/Experience proposed to be engaged by him. The agency must be currently actively engaged in execution of the said specialized item and must have who have satisfactorily executed similar work during last 7 (Seven) years as below:

a) Three works each of value not less than 40% of corresponding cost of the Estimated cost.

Or

b) Two works each of value not less than 60% of corresponding cost of the Estimated cost.

Or

c) One work each of value not less than 80% of corresponding cost of the Estimated cost.

For Calculation purpose only, cost of the specialized item as per accepted tendered value of the all the items corresponding to the specialized item under consideration.

**27. DEFECT LIABILITY PERIOD:**

Defect liability period shall be **3 years** from the actual date of completion of work.

## **ADDITIONAL SPECIFICATIONS FOR CIVIL WORK**

### **1.0 Cement**

- 1.1** The contractor shall procure 43 grade Ordinary Portland Cement (conforming to IS 8112) or Portland Pozzolana Cement (PPC) [conforming to IS:1489 (Part-I)] as required in the work, from reputed manufacturers of cement having a production capacity not less than one million tonnes per annum, such as ACC, Ultra tech, Shree Cement, Ambuja, Jaypee Cement. Cement as approved by the Ministry of Industry, Government of India, and holding license to use ISI certification mark for their product.
- 1.2** The supply of cement shall be taken in 50 kg. bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it 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.
- 1.3** The cement shall be brought at site in bulk supply of approximately 10tonnes or as decided by the Engineer- in- charge. The cement go down of the capacity to store a minimum of 400 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.
- 1.4** Double lock provision shall be made to the door of the cement go down. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement go down. The contractor shall facilitate the inspection of the cement go down by the Engineer-in-charge at any time.
- 1.5** The cement shall be got tested by the 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 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.
- 1.6** The actual issue and consumption of cement on work shall be regulated and proper accounts maintained 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. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
- 1.7** The cement brought to the site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the engineer-in- charge.
- 1.8** The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.
- 1.9** The day-to-day receipt and issue accounts of all cement bags used in the work shall be maintained in the register as per following proforma and daily signed by the contractor or his authorized representative and by the representative of Engineer-in-charge.

Particulars of receipt			Particulars of issue								Remarks	
Date of receipt	Quantity received	Progressive total	Date of issue	Quantity issued	Items of work for which issued	Quantity returned at the end of the day	Total issued	Daily balance in hand	Contractor initials	JE's initials	AE's initials	EE's initials
1	2	3	4	5	6	7	8	9	10	11	12	13

**1.10** The Superintending Engineer, CCU may change the brand of cement depending upon availability in local market but conforming to grade mentioned in the NIT and only with ISI mark, if warranted.

**2.0 Steel reinforcement bars**

**2.1** The contractor shall procure IS marked TMT bars of grade 500D or more from the steel manufacturers such as SAIL, TATA Steel Ltd, RINL, Jindal Steel & JSWsteel Ltd. or their authorized dealers having valid BIS license for IS: 1786-2008 (Amendment -1 November 2012).

**2.2** The contractor shall have to obtain and furnish test certificates to the Engineer-in-Charge in respect of all Supplies of steel brought by him to the site of work.

**2.3** 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, 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.

**2.4** The steel reinforcement bars shall be brought to the site in bulk supply of 05 tonnes or more, or as decided by the Engineer-in-Charge.

**2.5** The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their 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.

**2.6** For checking nominal mass, tensile strength, bend test, re-bend test etc. Specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:

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

- 2.7** 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.
- 2.8** 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 38 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 in Schedule F shall be made. In case of excess consumption, no adjustment needs to be made.
- 2.9** The steel reinforcement shall be stored by the contractor at site of work about 30 cm to 45 cm above ground. A coat of cement wash shall be given to the steel bars when stored at site for long duration so as to prevent corrosion. Nothing extra shall be paid on this account. Bars of different sizes and length shall be stored separately to facilitate easy counting and checking.
- 2.10** The steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-Charge.
- 2.11** The actual issue of steel will be actual weight of total quantity of steel received at the site less actual weight of balance quantity of steel lying unutilized at the work site. If the quantity of steel actually used in the work is found to be more than the theoretical quantity of steel including authorized variation, no payment will be made to the bidder on this account. In the event of it being discovered that after the completion of the work the quantity of steel used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in clause 38), the cost of quantity of steel not so used will be recovered from the bidder as prescribed in Schedule F. Decision of the Engineer-in-charge in regard to theoretical quantity of steel which should have been actually used and recovery at the rate specified, will be final and binding on the bidder.
- 2.12** In case the bidder brings surplus quantity of steel the same after completion of the work will be removed from the site by the bidder at his own cost after approval of the Engineer-in-charge.
- 2.13** Steel Reinforcement bars including authorized spacer bars and laps will be measured in length of different diameters as actually (not more than as specified in the drawing) used in the work nearest to a centimetre. Wastage and unauthorized overlaps will not be measured and paid for.
- 2.14** The Standard sectional weight referred in CPWD Specifications Vol.1, 2019 will be considered for conversion of length of various diameters of Thermo-Mechanically Treated bars, into standard weight.
- 2.15** Record of actual sectional weight will also be kept dia wise / lot wise. The average sectional weight for each diameter will be arrived at from sample from each lot of steel received at site. The decision of Engineer-in-charge will 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 the 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 be termed as 'Derived actual weight'.
- 2.16** If the Derived actual weight is lesser than the Standard weight, then the Derived actual weight will be taken for payment.
- 2.17** If the Derived actual weight is found more than the standard weight, then the Standard weight will be taken for payment. In such case no payment will be made for the difference between the Derived actual weight and the Standard weight.



### **3.0 RCC Work**

- 3.1** The work shall be carried out in general as per CPWD Specifications as mentioned in schedule 'F'. The RCC work shall be done as specified in the nomenclature of items. The RCC work shall be done with Design Mix Concrete, wherever required.
- 3.2** The contractor shall engage one of the Indian institute of Technology (IIT) or National Institute of Technology (NIT) at his own expenses for designing the concrete mix in accordance with relevant IS code and to conduct laboratory tests to ensure the target strength and workability criteria for a given grade of concrete. The various ingredients for mix design/ laboratory tests shall be sent to the laboratory through the Engineer-in-charge and the samples of such aggregates shall be preserved at site by the department.
- 3.3** The contractor shall submit the report on design mix from any of the above laboratories for approval of the Engineer-in-charge in writing within 30 days from the date of issue of award letter of the tender. No concreting shall be done until the design mix is approved.
- 3.4** For any change in source of ingredients/quality of materials of the concrete, for which the concrete mix has been designed earlier and approved by the Engineer-in-Charge, the contractor will get the mix redesigned again from the institutes stated above at his own expenses and will obtain the approval of redesigned mix from the Engineer-in-Charge before use at site.
- 3.5** Where Ready Mix Concrete (RMC) is required to be used in the work, the main contractor shall obtain the approval of manufacturer/supplier of RMC (RMC Plant) in writing from the Engineer-in-Charge. The main contractor has to enter into a Memorandum of Understanding (MoU) with the RMC manufacturer/supplier who is supplying the RMC for the work. The copy of such MoU shall be submitted by the main contractor to the Engineer-in-Charge within three days of signing of MoU.
- 3.6** The design mix concreting shall be done using computerized fully automatic concrete batching plant of suitable capacity (as decided by the Engineer-in-charge) which shall be installed by the contractor at site, calibrated and tested. A copy of the valid/upto date calibration certificate shall be submitted by the contractor to the Engineer-in-charge before start of concreting work. The Plant shall have the facilities of data print out, pre-setting the quantity to be weighed with automatic cut-off when the same is achieved. The location to install batching plant at site shall be obtained by the contractor from the Engineer-in-charge. The receipt and issue account of cement bags used in the RMC work shall be properly kept. The computerized dispatch slips (indicating all required details) mentioning name of manufacturer/supplier that are sent with each dispatch of RMC shall be provided by the main contractor which shall be kept in record by the Engineer-in-Charge.

### **4.0 Steel work**

The contractor shall submit the fabrication drawings of complete steel structure (columns, truss etc.) for supporting the GI Profile sheet roofing work to the Engineer-in-charge for his approval. The fabrication drawings shall be based on architectural drawings/ structural drawings and will show construction details, joinery details, anchoring details etc. complete.

### **5.0 ROAD WORK**

Road work shall conform to CPWD specification 2019, in case the same is not available in CPWD specification or if required as per item, the MORTH specifications for roads and bridges 2001 shall be followed. Five years (05) guarantee bond in prescribed Performa attached at Annexure-II herewith shall be submitted by the contractor which shall also be signed by both the specialist agency and the contractor to meet their liability / liabilities under the guarantee bond. However, the sole responsibility shall rest with the building contractor.

10% (Ten percent) of the cost of bituminous layers of road work shall be retained as security deposit and the amount so withheld would be released after ten years from the date of completion of the entire work under the agreement, if the performance of the work done is found satisfactory, if any defects like leakage and manufacturing defects etc. is noticed during the guarantee period, it shall be rectified by the contractor within seven days of the receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another agency at the risk and cost of the contractor.

However, the security deposit deducted may be released in full against bank guarantee of equivalent amount in favor of Engineer-in-charge. If so, decided by the Engineer-in-charge.

The Security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in contract form.

#### **Removal of rejected/sub-standard materials.**

- 6.0 The following procedure shall be followed for the removal of rejected/sub-standard materials from the site of work:
- a Whenever any material brought by the contractor to the site of work is rejected, entry thereof should invariably be made in the Site Order Book under the signature of the Assistant Engineer, giving the approximate quantity of such materials.
  - b As soon as the material is removed, a certificate to that effect shall be recorded by the Assistant Engineer against the original entry, giving the date of removal and mode of removal, i.e., whether by truck, carts, or by manual labour. If the removal is by truck, the registration number of the truck should be recorded.
  - c When it is not possible for the Assistant Engineer to be present at the site of work at the time of actual removal of the rejected/sub-standard materials from the site, the required certificate should be recorded by the Junior Engineer, and the Assistant Engineer should countersign the certificate recorded by the Junior Engineer.

## MINIMUM QUALITY ASSURANCE PLAN

### 1.1 FIELD LABORATORY

The contractor shall establish a laboratory at site of work at his own cost. The laboratory shall be equipped, inter alia, with the equipment mentioned in Schedule F.

### 1.2 OUTSIDE / INDEPENDENT TESTING

1.2.1 The tests, as necessary, shall be conducted in the laboratory approved by the Engineer-in-Charge. The Samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.

1.2.2 Testing charges to be borne by contractor. All expenditure to be incurred for testing of samples e.g. packaging, sealing transportation, loading, unloading etc. including testing charges shall be borne by the contractor.

### 1.3 QUALITY CONTROL TESTS

Field / lab tests shall be carried out to check control and finally assure the quality of work at every level. Material and finished item shall be subjected to test to achieve the desired quality of work. Where ever necessary, required number of test shall be carried out in outside laboratory approved by the engineer-in-charge. The following mandatory test shall be carried out:

#### (A) TABLE OF MANDATORY TESTS

As per CPWD Specifications 2019 Vol. I and II with correction slips upto last date of submission of bid and as per relevant IS code.

### 1.4 Custody & Reporting of Records

All the records shall be maintained jointly by laboratory in-charge and the authorized representative of Engineer-in-charge. Records shall be maintained in registers and shall be kept in the safe custody of Junior Engineer in-charge of work. Status of mandatory test shall be reported at the time of presentation of each running account bill or monthly progress reports

#### Maintenance of registers of test

- i. The register of tests carried out at construction site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge with a docket number. The contractor shall make a written request for issue of test register clearly stating the name of register.
- ii. All samples of materials including cement concrete cubes shall be taken jointly with contractor by JE, and out of this at least 50% samples shall be taken in presence of AE in charge. If there is no JE, all samples of materials including cement concrete cubes shall be taken by AE jointly with contractor. All the necessary assistance shall be provided by the contractor. Cost of sample materials is to be borne by the contractor and he shall be responsible for safe custody of samples to be tested at site.
- iii. All the tests in field lab setup at construction site shall be carried out by the Engineering staff deployed by the contractor which shall be 100% witnessed by JE and 50% of tests shall be witnessed by AE-in-charge. At least 10% of the tests are to be witnessed by the Executive Engineer.

- iv. All the entries in the registers will be made by the designated Engineering staff of the contractor and same should be regularly reviewed by JE/AE/EE.

Submission of copy of test register and Material at Site Register along with each alternate running account bill and final bill shall be mandatory. These registers should be duly checked by AE(P) in division office and receipts of registers should be acknowledged by Accounts Officer by signing the copies and register to confirm receipt in division office.

If all the test registers are not submitted along with each alternate R/A bill & final bill, it will be responsibility of EE & AAO not to release any payment to the contractor.

**Maintenance of material at site (MAS) register-**

- i. All the MAS registers including Cement and Steel registers shall be maintained by contractor which shall be issued to the contractor by Engineer-in-charge with a docket number.
- ii. Each of the entry of receipt of material at site shall be 100% test checked by JE or by AE if there is no JE.
- iii. Each MAS register shall be checked by JE at least twice a week and at least once a week by AE. If there is no JE then MAS registers will be checked by AE at least twice a week.

**1.5 Approval of source of materials -**

Approval of source shall be obtained from Engineer-in-charge for availability of good quality materials. All materials shall be got approved from Engineer-in-charge before using them in the work.

## **PREFERRED MAKES/BRANDS OF MATERIALS**

Acceptable makes of materials to be used in the work are enclosed. Only BIS marked materials in the list shall be used in the work. Non-BIS marked materials may be permitted by the Engineer-in-charge only when BIS marked materials are not manufactured. If approved make/brand of any material is not given in the list, the same will be approved by the Executive Engineer, CCU.

## **LIST OF ACCEPTABLE MAKES FOR CIVIL WORKS**

<b>S.N.</b>	<b><u>DETAILS OF MATERIALS</u></b>	<b><u>MANUFACTURERS NAME</u></b>
1	STEEL (TMT FE-500D)	TATA TISCON, RINL, JINDAL STEEL, JSW STEEL LTD. AND SAIL
2	STRUCTURAL STEEL SECTIONS	TATA, JINDAL, SAIL
3	CEMENT [OPC AND (P.P.C.) 43 GRADE]]	ACC, AMBUJA, ULTRATECH, JAYPEE CEMENT. SHREE CEMENT
4	PRECAST DUCTS/DRAINS/ DRAIN COVER/KERB CHANNEL	KK, NITCO, KERAKROME, TERRAFIRMA, FUJISILVERTECH, Tulip.
5	WHITE CEMENT	BIRLA WHITE, J.K. WHITE, ULTRATECH
6	CC PAVERS, PAVER Block	NITCO, UNISTONE, Tulip, DALAL
7	FLOOR/WALL TILES (DOUBLE CHARGED / FULL BODY/ULTRA SLIM /ANTISKID / ACID-ALKALI RESISTANT/VITRIFIED)	SOMANY, KAJARIA, JOHNSON, RAK
8	CERAMIC GLAZED TILES	SOMANY, KAJARIA, JOHNSON, RAK
9	WATER-PROOF CEMENT PAINT	SNOWCEM, ASIAN PAINT, SIKA, NEROLAC
10	SYNTHETIC ENAMEL PAINT	ASIAN PAINT, BERGER, NEROLAC
11	PLASTIC EMULSION PAINT	ASIAN PAINT, BERGER, NEROLAC
12	OIL BOUND DISTEMPER/ACRYLIC EMULSION PAINT	ASIAN PAINT, BERGER, NEROLAC
13	STEEL PRIMER	NEROLAC, BERGER, ASIAN PAINTS
14	WOOD PRIMER	NEROLAC, BERGER, ASIAN PAINTS
15	EXTERIOR WATERPROOFING PAINT	(DR. FIXIT), ASIAN, BERGER, PIDILITE
16	WOOD FINISH (MELAMINE & PU POLISH)	PIDILITE, ASIAN, WAXPOZ
17	LAMINATE	MERINO, GREENLAM, CENTURY
18	PLY BOARD, PLYWOOD (PINE BOARD)	GREEN, MERINO, CENTURY

<b>S.N.</b>	<b><u>DETAILS OF MATERIALS</u></b>	<b><u>MANUFACTURERS NAME</u></b>
19	SELF LEVELLING COMPOUND	MAPAI, ARDEX ENDURA, BIZZAR
20	EPDM GASKET	HANU, ANAND, VICTOR
21	WOOD ADHESIVE	FEVICOL, 3M, JIVANJOR, SIKA
22	FLUSH DOOR	GREEN, MERINO, CENTURY, DURIAN
23	WATER REPELLENT PAINT	ARDEX ADURA, WEBER, PIDILITE
24	FIRE SEALANT	HILTI, 3M, MCCOY
25	TILE ADHESIVE	PIDILITE, ARDEX ENDURA, WEBER
26	STONE ADHESIVE	PIDILITE, ARDEX ENDURA, WEBER
27	DASH, ANCHORING FASTENERS	HILTI, FISCHER, CANON
28	ALUMINIUM COMPOSITE PANEL	ALUCOBOND, REYNOBOND, ALPOLIC, ALSTONE
29	EPOXY GROUTING COMPOUND	PIDILITE, ARDEX ENDURA, WEBER
30	GYPSUM PLASTER	SAINT GOBAIN, USG BORAL, ULTRATECH
31	SILICON SEALANT	GE, DOW CORNING, PIDILITE
32	GYPSUM BOARD	INDIA GYPSUM, USG BORAL, LAFAGE, SAINT-GOBAIN
33	ROOF TILES	KAJARIA, NITCO, JOHNSON.
34	FLOAT GLASS	ASAHI, MODI GLASS, SAINT GOBAIN GLASS
35	CRYSTALLIANE CEMENTITIOUS WATERPROOFING COMPOUND	XYPEX CONSTRUCTION CHEMICAL, KRYTONE, PENETRON, SIKA, ASIAN, PIDILITE.
36	BITUMEN MEMBRANE FOR WATERPROOFING	PIDILITE (DR. FIXIT), GRACE, SIKA
37	HDPE MEMBRANE FOR WATERPROOFING	PIDILITE, GRACE, SIKA
38	PU MEMBRANE FOR WATERPROOFING	PIDILITE, GRACE, SIKA
39	ROLLER BLIND	VISTA, MAC, HUNTER DOUGLUS
40	PRELAMINATED PARTICLE BOARD	MERINO, CENTURY PLY, GREENLAM
41	HYDRAULIC DOOR CLOSER, FLOOR SPRING	DORMA, OZONE, HAFELE, DORSET, KICH
42	HARDWARES FOR FIRE RATED DOORS	DORMA, OZONE, HAFELE, DORSET, KICH
43	FRICTION STAY HINGES	DORMA, OZONE, HAFELE, DORSET, KICH

<b>S.N.</b>	<b><u>DETAILS OF MATERIALS</u></b>	<b><u>MANUFACTURERS NAME</u></b>
44	STAINLESS STEEL FITTINGS/HARDWARE FOR WOODEN/METAL/GLAZED/STEEL DOOR & WINDOWS	DORMA, OZONE, HAFELE, DORSET, KICH
45	STEEL WINDOWS, PRESSED STEEL FRAMES	SAN HARVIC, TATA, APOLLO, JINDAL
46	WIRE MESH	STERLING ENTERPRISES, MICROMESH, HARVER STANDARD, INDIA WIRE MESH
47	ADHESIVE TAPE	3M, NORTON, BOPD, TESA
48	HIGH PERFORMANCE EPOXY BASED RESIN ANCHOR SYSTEM	BASF, FOSROC, CICO, SIKA
49	EPOXY MORTAR	FOSROC, SIKA, MYK LATICRETE, CICO
50	NUTS, BOLTS & SCREWS	GKW, AXISL, BOUN
51	ALUMINIUM SECTIONS FOR DOORS & WINDOWS ETC.	JINDAL, HINDALCO, NALCO
52	HARDWARE FITTINGS FOR ALUMINIUM WINDOWS & DOORS	KINLONG, ALUAPHA, EBCO, CLASSIC
53	MS SECTIONS (PIPES, BOXES CHANNELS)	JINDAL HISAR, TATA, SURYA
54	TEXTURED PAINT	ASIAN, BERGER, NEROCAC
55	S.S. MATERIAL/HADRAILS/RAILINGS/FITTINGS	JINDAL STAINLESS STEEL LTD., TATA STEEL, KICH, DORMA, GODREJ
56	WALL PUTTY	JK, BIRLA, ASAIN PAINT
57	FLOOR HARDENER	PIDILITE, FOSROC, SIKA, BASF, CICO
58	POLYSULPHIDE SEALANT	PIDILITE, ARDEX ENDURA, BASF.
59	INSULATED ALUMINUM COMPOSITE/PUFF/SANDWITCH PANEL	KINGSPAN JINDAL, METECNO, HUNTER DOUGLAS, TATA BLUSCOPE.
60	SPECIALISED AGENCY FOR EXPANSION JOINT TREATMENT	SIKA, FOSROC, PIDILITE, ASIAN
61	WATERPROOFING COMPOUND	FOSROC, DR. FIXIT, SIKA, ASAIN PAINT
62	ADMIXTURES	FOSROC, SIKA, PIDILITE
63	REFLECTIVE GLASS	SAINT GOBAIN, ASAHI (INDIA), MODIGUARD, JAGUAR, HINDWARE

<b>S.N.</b>	<b><u>DETAILS OF MATERIALS</u></b>	<b><u>MANUFACTURERS NAME</u></b>
64	LOOKING GLASS / MIRROR	SAINT GOBAIN, ASAHI (INDIA), MODIGUARD, JAGUAR, HINDWARE
65	HIGH PERFORMANCE GLASS	SAINT GOBAIN, ASAHI, MODIGUARD
66	METAL/ALUMINUM FALSE CEILING	SAINT GOBAIN, HUNTER DOUGLUS, ARMSTRONG.
67	AAC BLOCK	FINECRETE, INSTA, SHREE
68	AAC BLOCK ADHESIVE	ARDEX ENDURA, PIDILITE, ULTRATECH, UNICRETE, FERROUS CRETE.
69	GRASS PAVER	NITCO, UNISTONE, TULIP, DALAL
70	HIGH PRESSURE LAMINATE INTERIOR/EXTERIOR GRADE	MERINO, CENTURY, GREENLAM
71	UPVC DOORS AND WINDOWS (Profit makers and their authorized fabricators only)	FENESTA, VEKA, KOEMMERLING, ALUPLAST, DUROPLAST.
72	EPDM MEMBRANE	FIRESTONE, PIDILITE, MYK SCHOMBURG, ASIAN PAINTS
73	WALL GUARD, HAND RAIL, CORNER GUARD	CONSTRUCTION SPECIALITIES / GRADUS INPROCORP INDIA PVT. LTD.
74	SOLID ACRYLIC SURFACE	MERINO, LG, GRANIMUM, SAMSUNG- STARON
75	VINYL / CONDUCTIVE FLOORING, DADO SKIRTING	FORBO, TARAKETT, RESPONSIVE, ARMSTRONG, GERFLOOR
76	CALCIUM SILICATE TILES FALSE CEILING	AEROLITE, ARMSTRONG, HILUX, SAINT GOBAIN
77	FIRE CHECK DOORS	NAVAIR, SHAKTI, SUKRI
78	LEAD LINED DOOR	NAVAIR, SHAKTI HORMANN, METAFLEX, RESPONSIVE
79	FIRE RESISTANT GLASS	SAINT GOBAIN, ASAHI.
80	INTUMESCENT FIRE / SMOKESEAL	ASTRO FLAME, RAVEN, SEALZ, LORIENT
81	MINERAL FIBRE SUSPENDED CEILING SYSTEM	SAINT GOBAIN, USG BORAL, ARMSTRONG
82	GI PIPES	TATA, JINDAL, SURYA
83	CPVC PIPES	ASTRAL, PRINCE, SUPREME, ASTRAL
84	HDPE PIPES	SUPREME, FINOLEX, ASTRAL, ORIPLAST, RELIANCE



<b>S.N.</b>	<b><u>DETAILS OF MATERIALS</u></b>	<b><u>MANUFACTURERS NAME</u></b>
85	CC (SPUN) IRON PIPE	NECO, SKF, KAPILANSH
86	CCI SOIL, WASTE, VENT PIPES & FITTINGS	NECO, SKF, KAPILANSH
87	C.P. BRASS FITTING	JAQUAR, GROHE, KOHLER, HINDWARE, ROCA, CERA
88	SS SINK	NILKANTH, NIRALI, PARRYWARE
89	SS RAILING	DORMA, KICH, OZONE.
90	C.P. BRASS BATHROOM ACESSORIES	JAQUAR, GROHE, KOHLER, HINDWARE, ROCA, CERA
91	WATER BASED MELAMINE POLISH	ASIAN, PIDILITE
92	SANITARY WARE (URINAL, WASH BASIN, WC ETC.)	JAQUAR, GROHE, KOHLER, HINDWARE, ROCA, CERA, SOMANY
93	FURNITURE	GODREJ INTERIO, DURIAN, STEELCASE
94	ACRYLIC SYNTHETIC FLOORING	DECO TURF CALIFORNIA, PFS POLAND, KDF, REBOUND ACE, SPORTS MASTERS USA
95	PP TILES FLOORING	GALLANT SPORTS, MEVRICK SPORTS TILES, SPORTS TILES

**GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER SUPPLY, SANITARY INSTALLATIONS AND DRAINAGE WORK**

The agreement made this \_\_\_\_\_ day of \_\_\_\_\_ Two Thousand and \_\_\_\_\_ between \_\_\_\_\_ son of \_\_\_\_\_ (hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part.)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated and made between the GUARANTOR of the one part the Government of the other part, whereby the contractor inter alia, undertook to render the **Sanitary installations and water supply works** water tight and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable and guaranteed against leakages, faulty workmanship, improper finishing, unsound materials and other defects.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable after expiry of maintenance period prescribed in the contract for the **minimum life of five year** to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHERE OF these presents, have been executed by the obligor \_\_\_\_\_ and by \_\_\_\_\_ for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGOR \_\_\_\_\_ in the presence of:  
1.  
2.

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY \_\_\_\_\_ in the presence of:  
1.  
2.

**TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF BITUMINOUS LAYERS OF ROAD WORK.**

The agreement made this day of Two Thousand and \_\_\_\_\_ Between son of of \_\_\_\_\_ (hereinafter called the Guarantor of the one party) and the **PRESIDENT OF INDIA** (hereinafter called the Government of the other party).

**WHEREAS THIS** agreement is supplementary to a contract (hereinafter called the Contract), dated \_ and made between the **GUARANTOR OF THE ONE** part and the Government of the one other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

**AND WHEREAS THE GUARANTOR** agreed to give a guarantee to the affect that the said work will remain structurally stable and guaranteed against faulty workmanship, finishing and unsound materials and other related problems.

**NOW THE GUARANTOR** here by guarantee that work executed by him will remain structurally stable after the expiry of maintenance period prescribed in the contract for the **minimum life of five years (05)** to be reckoned from the date after expiry of maintenance period prescribed in the contract.

The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects, commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the **GUARANTOR** in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

**IN WITNESS WHERE OF** these presents, have been executed by the obligator and by for and on behalf of the **PRESIDENT OF INDIA** on the day, month and year first above written.

**SIGNED**, sealed and delivered by **OBLIGATOR** in the presence of:

1. \_\_\_\_\_

2. \_\_\_\_\_

**SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY**

\_\_\_\_\_ in the presence of:

1. \_\_\_\_\_

2. \_\_\_\_\_

**GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ANTI-TERMITE TREATMENT WORKS.**

The Agreement made this \_\_\_\_\_ day of \_\_\_\_\_ one thousand nine hundred and \_\_\_\_\_ between \_\_\_\_\_ son of \_\_\_\_\_ of \_\_\_\_\_ (hereinafter called the Guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract (hereinafter called the Contract), dated \_\_\_\_\_ and made between the GUARANTOR OF THE ONE part and the Government of the other part, whereby the Contractor, *inter alia*, undertook to render the buildings and structures in the said contract recited completely termite proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain termite proof for **five years** from the date of giving of termite proof treatment.

NOW THE GUARANTOR hereby guarantees that anti-termite treatment given by him will render the structures completely termite proof and the minimum life of such treatment shall be **five years** to be reckoned from the date after the maintenance period prescribed in the contract.

During this period of guarantee, the guarantor shall make good all defects and in case of any defect being found render the building termite proof to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other Contractor at the GUARANTOR’S cost and risk. The decision of the Engineer-in-charge as to the cost, payable by the Guarantor shall be final and binding.

That if the Guarantor fails to execute the termite proofing or commits breach thereunder, then the Guarantor will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and / or damage and /or cost incurred by the Government the decision of the Engineer-in-charge, will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor \_\_\_\_\_ and by \_\_\_\_\_ and for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

Signed, sealed and delivered by Obligor in the presence of –

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

Signed for and on behalf of the President of India by \_\_\_\_\_

In the presence of –

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

**GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATERPROOFING WORKS**

The Agreement made this ..... day of ..... two thousand and ..... between ..... son of ..... of ..... (hereinafter called the Guarantor of the one part) and the **PRESIDENT OF INDIA** (hereinafter called Government of the other part).

**WHEREAS** this agreement is supplementary to a contract (hereinafter called the Contract) dated ..... and made between the GUARANTOR of the one part and the Government of the other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

**AND WHEREAS GUARANTOR** agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for Five years from the date of giving of water proofing treatment.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be Five years to be reckoned from the date after the maintenance period prescribed in the contract.

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

- (a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;
- (b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts;
- (c) The decision of the Engineer-in-Charge with regard to cause of leakage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water-proof to the satisfaction of the Engineer-in-Charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-Charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other contractor at the **GUARANTOR'S** cost and risk. The decision of the Engineer- in-Charge as to the cost, payable by the Guarantor shall be final and binding.

**That if GUARANTOR** fails to execute the water proofing or commits breach thereunder then the GUARANTOR will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government, the decision of the Engineer-in-Charge will be final and binding on the parties

IN WITNESS WHEREOF these presents have been executed by the Obligor .....and by ..... and for and on behalf of the **PRESIDENT OF INDIA** on the day, month and year first above written.

Signed, sealed and delivered by OBLIGOR in the presence of

- 1.
- 2.

Signed for and on behalf of **THE PRESIDENT OF INDIA** by ..... in the presence of

1

**GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS  
AFTER COMPLETION IN RESPECT OF uPVC DOOR/WINDOWS/VENTILATOR WORKS &  
ALUMINIUM WORKS**

The agreement made this day of Two Thousand and \_\_\_\_\_ Between son of of \_\_\_\_\_ (hereinafter called the Guarantor of the one party) and the PRESIDENT OF INDIA (hereinafter called the Government of the other party).

**WHEREAS THIS** agreement is supplementary to a contract (hereinafter called the Contract), dated \_ and made between the GUARANTOR OF THE ONE part and the Government of the one other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

**AND WHEREAS THE GUARANTOR** agreed to give a guarantee to the affect that the said work will remain structurally stable and guaranteed against faulty workmanship, finishing and unsound materials and other related problems.

**NOW THE GUARANTOR** here by guarantee that work executed by him will remain structurally stable after the expiry of maintenance period prescribed in the contract for the minimum life of five years (05) to be reckoned from the date after expiry of maintenance period prescribed in the contract.

The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects, commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the **GUARANTOR** in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

**INWITNESS WHERE OF** these presents, have been executed by the obligator and by for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

**SIGNED**, sealed and delivered by **OBLIGATOR** in the presence of:

- 1.
- 2.

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY \_\_\_\_\_

in the presence of:

- 1.
- 2.

**GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ACRYLIC SYNTHETIC TENNIS COURT**

This agreement made this..... day of ..... Two Thousand ..... between M/s .....(hereinafter called the GUARANTOR on the one part) and the PRESIDENT OF INDIA (hereinafter called the Government on the other part)

WHEREAS THIS agreement is supplementary to a Contract No. ....dated .....(Hereinafter called the Contract)and made between the GUARANTOR on the one part and the Government on the other part whereby the contractor inter alia undertook to render the building and structures in the said contract completely defect proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain intact, for **Ten Years** from the date of completion of the work under the contract.

NOW THE GUARANTOR hereby guarantee that work executed by him will render the Acrylic Synthetic Tennis Court/Sub Base/ Underground Drainage Pipes/Poles Completely defect proof and the minimum life of such work shall be **Ten years** to be reckoned from the date of completion of the work under the contract.

Provided that the guarantor will not be responsible for damage caused by earthquake or alteration and for such purpose:

- (a) Misuse of Synthetic Tennis Court/Pole shall mean any operation which will damage surface treatment, like chopping of firewood and things of the same nature which might cause damage to the court surface;
- (b) Alteration shall mean construction of an additional work or a part of the surface or construction adjoining to existing surface whereby surface treatment is removed in parts;
- (c) The decision of the Engineer-in-Charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects and in case of any defect being found in Acrylic Synthetic Tennis Court/Sub Base/ Underground Drainage Pipes/Poles into shall be made defect proof to the satisfaction of the Engineer-in-Charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor’s cost and risk. The decision of the Engineer-in-Charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to execute the said work or commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and or cost incurred by the Government, the decision of the Engineer-in-Charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents have been executed by the obligator .....and ..... by ..... PRESIDENT OF INDIA on the day, month and year first above written.

for and on behalf of the SIGNED, sealed and delivered by OBLIGATOR in the presence of:

- 1. ....
- 2. ....

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIA BY .....in the presence of:

- 1. ....
- 2. ....

# Schedule of Quantity for Civil work



**Schedule of Quantity**

**Name of work:-Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.**

S.No.	Description	Qty	Unit	Rate	Amount
<b>1</b>	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	5.50	cum	7878.50	43332.00
<b>2</b>	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	22.50	cum	7132.25	160476.00
<b>3</b>	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1850.00	kg	172.60	319310.00
<b>4</b>	12 mm cement plaster of mix :				
	1:6 (1 cement: 6 coarse sand)	161.00	sqm	343.65	55328.00
<b>5</b>	Neat Cement Punning	195.00	sqm	79.95	15590.00
<b>6</b>	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
<b>6.1</b>	Two or more coats on new work	85.00	sqm	155.9	13252.00
<b>7</b>	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 mtrs lead as per direction of Engineer-in-charge.				
<b>7.1</b>	Nominal concrete 1:3:6 or richer mix (Including equivalent design mix)	189.00	cum	2434.25	460073.00
<b>7.2</b>	Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	126.00	cum	1503.60	189454.00

<b>8</b>	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge				
	In cement mortar	23.00	cum	2060.20	47385.00
<b>9</b>	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	1260.00	sqm	218.90	275814.00
<b>10</b>	Supplying and stacking at site.				
<b>10.1</b>	90 mm to 45 mm size stone aggregate	151.50	cum	2098.40	317908.00
<b>10.2</b>	53 mm to 22.4 mm size stone aggregate	115.00	cum	1842.30	211865.00
<b>10.3</b>	Stone screening 13.2 mm nominal size (Type A)	34.00	cum	2034.35	69168.00
<b>10.4</b>	Stone screening 11.2 mm nominal size (Type B)	23.00	cum	2247.75	51698.00
<b>11</b>	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	221.00	cum	1046.95	231376.00
<b>12</b>	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
<b>12.1</b>	With rapid setting bitumen emulsion				
<b>12.1.1</b>	On W.B.M / W.M.M. @ 0.4kg/sqm	1260.00	sqm	13.45	16947.00
<b>12.1.2</b>	On bituminous surface @ 0.25kg/sqm	1260.00	sqm	9.20	11592.00

<b>13</b>	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.				
<b>13.1</b>	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	95.00	cum	8505.65	808037.00
<b>14</b>	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
<b>14.1</b>	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	63.00	cum	12126.20	763951.00
	<b>Total</b>				<b>40,62,556.00</b>
	<b>Correction Factor(=0.973)</b>				<b>39,52,867.00</b>
	Add Cost Index @8%				<b>3,16,229.00</b>
	<b>Total for DSR Items</b>				<b>42,69,096.00</b>

15	Supply and installation of basketball court flooring using high-grade co-polymer polypropylene (PP) tiles (300 × 300 × 15.8 mm, approx. 360 g each) with interlocking side locks, designed for temperature resistance, anti-skid performance, and durability, tested and certified by Labosports, SML, and CIPET, compliant with ITF/FIBA standards, including complete installation and a 10-year warranty.	614.00	sqm	2457.65	15,08,997.00
16	Providing and laying Acrylic Synthetic Coat of approved make (California Sports / DecoTurf USA / Rebound Ace International / PFS Poland or equivalent) conforming to ITF standards, consisting of 9 layers including 2 layers of resurface, 4 layers of cushion, 1 layer of filler, and 2 layers of color, complete with surface preparation and line marking as per international standards and as directed by the Engineer-in-Charge				
	1. Filler Course: - Providing and laying one coat of Acrylic Resurface blended with approved silica sand.				
	2. Cushion Course: providing and laying five coats to achieve a smooth, cushioned finish for shock absorption and player comfort.				
	3. Texture Course: providing and laying two coats of acrylic base blended with color compound to ensure uniform surface texture, proper traction, and controlled speed of play.				
	4. Finish Course: providing and laying one coat of acrylic color finish to produce a vibrant, durable surface resistant to weathering and ultraviolet degradation.				
	5. Line Marking: providing and laying two coats of heavy-bodied acrylic latex white striping paint, both textured and un-textured, ensuring clear and durable markings				
	<b>Technical Properties</b>				
	Slip Resistance:- Inclined plane. Co-efficient of static friction $\mu = 0.67$				

	Environmental Impact:- Combination of water based, solvent free & recycled materials				
	Durability:- Permanent resilient base (totally recoatable surface)				
	Impact Resistance:- Method -BS3900 Part E3, Result- Indentation 2.5mm				
	Artificial Weathering :- Method- AS 483.1, Result- 1000hrs No Change				
	Heat Ageing:- Method- AS 2983.15 , Result- No Deterioration				
	Surface Grip:- Method- AS 3661.1, Result- Complies				
	UV Radiation:- Method- DIN 18035/6, Result- Complies	1260.00	sqm	2308.70	2908962.00
<b>17</b>	Supplying and fixing of Tennis pole 100 mmX100 mm mild steel black pipe and finished with high quality P.U. paints with inside gear box system fix in ground with heavy hardware tennis net and height 42" and thickness 2 mm.	2.00	pair	30454.05	60908.00
				<b>Total =</b>	<b>87,47,963.00</b>

# PART-C

<b>Civil Construction Unit</b>					
<b>N.I.T. No: 03/EE/CED-II/CCU/2026-27</b>					
<b>Name of work: Construction of 02 No. tennis court and 01 No. Basketball Court at CASFOS, FRI, Dehradun.</b>					
<b>SCHEDULE OF QUANTITY</b>					
<b>Name of the Contractor</b>					
<b>Sl. No.</b>	<b>Name of component</b>	<b>Estimated cost (Rs.)</b>	<b>Percentage above or below the estimated cost</b>	<b>% in Figures</b>	<b>Total Cost (Rs.)</b>
1	2	3	4	5	6
1	<b>Civil Works</b>	<b>87,47,963/-</b>	*	*	*

\*- To be filled online in bid document.

- 1) The Column Nos. 4 & 5 are mandatory to be filled by the bidders / tenderers. If these columns are left blank, the tender become invalid.
- 2) The amount in figures in column No.6 shall appear automatically corresponding to the percentage quoted in column No.4 & 5.
- 3) The tenderer is required to quote the percentage only above or below or at par with the estimated cost to cover all the rates of item covered under the respective packages.
- 4) The percentage shall be written in 2 (two) place of decimal.
- 5) If the percentage selection in column No 4 is "At Par", by default the percentage will be considered as "Zero" only. In other words if "At par" is selected in column No.4, then no need to fill column No.5