

 सत्यमेव जयते	भारत सरकार आवासन और शहरी कार्य मंत्रालय, केंद्रीय लोक निर्माण विभाग कार्यपालक अभियंता एस.एम.(सी) का कार्यालय तिरुपति परियोजना मंडल- II, आई.आई.टी स्थायी कैम्पस, वेंकटगिरी पथ येरपेटु मंडल-517 619	
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PERCENTAGE RATE N. I. T.

N.I.T. No. 04/NIT/EE & SM(C)/TPD-II/2026-27

Name of Work: Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring along with supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.

Estimated Cost put to Tender: Rs. **27,22,637/-**

Last date & time of online submission of bids Upto 17:30Hrs on 19/08/2026

Earnest Money Rs. **54,453/-** (to be refunded after Receipt of performance guarantee)

B L A N K

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Name of Work: Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.

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Certified that This NIT contains page numbers from 01 to 130 (one hundred Thirty only) pages.

**Assistant Engineer (C)
TPD-II, CPWD, Tirupati**

This NIT for work amounting to **Rs. 27,22,637/-** (Rupees Twenty Seven lakhs Thirty thousand Seven hundreded Sixty Nine only) is hereby approved.

Approved by

**Executive Engineer & Senior Manager (C) ,
Tirupati Project Division -II,
CPWD, Tirupati.**

B L A N K

Notice Inviting e-tender

Name of Work: Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.

Estimated cost	Rs. 27,22,637/-
Earnest Money	Rs.54,453/-
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	2.5% of bid value
Time Allowed	30 days
Last date & time of online submission of bids	Upto 17:30Hrs on 19/08/2026
Date of opening of bid	18:00Hrs on 19/08/2026

The bid forms and other details can be downloaded from the website <https://etender.cpwd.gov.in>. The press notice is also available on <https://etender.cpwd.gov.in>.

**Executive Engineer & Senior Manager (C) ,
Tirupati Project Division -II,
CPWD, Tirupati.**

B L A N K

PART – A

B L A N K

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING
FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE

The Executive Engineer and Senior Manager (C), Tirupati Project Division II, CPWD, Tirupati on behalf of President of India invites online percentage rate bids from eligible CPWD enlisted contractors of appropriate class in Building and Road category in Single bid system for the following work:-

Sl. No.	Description	Details
1	NIT No.	04/NIT/EE & SM(C)/TPD-II/2026-27
2	Name of Work	Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.
3	Estimated Cost Put to Tender (Composite)	Rs. 27,22,637 /-
4	Earnest Money Deposit (EMD)	Rs. 54,453/-
5	Period of Completion	30 days
6	Last time & date of online submission of bid, original EMD, copy of receipt for deposition of original EMD , and other documents as specified in the press notice / NIT.	Upto <u>17:30</u> Hours on <u>19/08/2026</u>
7	Time & date of online opening of bids.	At <u>18:00</u> Hours on <u>19/08/2026</u>

INSTRUCTIONS TO BIDDERS

Name of Work: **Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.**

Scope of Work:

- 1. The work is situated at IIT Tirupati campus, Tirupati under the jurisdiction of EE&SM(C), Tirupati Project Division-II, CPWD, Tirupati, A.P.**
- 2. The broad scope of the work is as under:**
 - a. Providing and laying polymer modified cementitious repair mortar for repair, levelling and surface correction of existing concrete, including surface preparation, mixing, application and finishing.
 - b. Removing existing steel basketball post by cutting at ground level, including dismantling and disposal of dismantled material and filling the void with cement concrete 1:1½:3.
 - c. Providing and laying ITF-certified customized 7-layer acrylic tennis court flooring system, including primer, resurfacer, precoat and UV-resistant topcoat, complete as per manufacturer's specifications.
 - d. Providing, supplying and installing heavy-duty movable basketball goal system conforming to FIBA international standards, including steel base frame, projection arms, tempered acrylic backboard, breakaway ring with nylon net, counterweights and heavy-duty wheels.
 - e. Providing, supplying, installing, testing and commissioning of electronic display Score board for basketball as per the standards., etc complete as required.

The above requirements are merely indicative not exhaustive. The work shall be carried out as per approved Drawings, scope, designs and schedule of quantities issued.

- 1. Contractors who fulfil the eligibility requirements in the bid document shall be eligible to apply. Joint ventures are not accepted.** The intending bidder must read the terms and conditions of **CPWD-6** carefully. He should only submit the 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, 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 down loaded from the website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.**
- 4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or**

Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of **Executive Engineer & Senior Manager(C), Tirupati Project Division-I, CPWD, Tirupati**, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE), CPWD and other documents as specified.

5. Those contractors, who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of <https://etender.cpwd.gov.in>.
6. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the eMSigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
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 of each item. The column meant for quoting **percentage rate** in figures appears in **yellow** 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).

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.

10. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
11. GST on all materials as well as GST on Work Contract etc., or any other taxes applicable in respect of this contract shall be payable by the Contractor. Percentage rate quoted by him shall be inclusive of such taxes, levies etc. and Government will not entertain any claim for reimbursement whatsoever in respect of the same. The Percentage rate of the contract shall be inclusive of all taxes and levies and nothing extra shall be paid. Further the Percentage rate quoted by the contractor shall be inclusive of labour welfare cess; Seigniorage fee including development cess if any and the same shall be recovered from the contractor's bills and shall be remitted to the respective department. Recovery towards GST shall also be made from the bills as per applicable rules and shall be remitted to the respective department.
12. Applicants are advised to keep visiting the above mentioned web-sites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the

applications complete in all respects including updates thereof, if any. An incomplete application may be liable for rejection.

13. The contractor has to make his own arrangements for providing labour camp at his own cost.

- i. The agency shall make its own arrangements for water, electricity, security arrangements etc., for the labour accommodation at its own cost.
- ii. The agency shall comply with all the statutory requirements elucidated by various labour laws and also comply with the Labour Regulations of CPWD and follow all health and safety advisories of the local /state or central government authorities.
- iii. The agency must ensure proper and adequate living conditions in the labour colony and they must provide at its own cost electricity, water, sanitation, hygienic washroom / toilet facilities, daycare, security and medical facilities in the labour colony.
- iv. The contractors' staff or labourers shall interact only with the authorised personnel of the CPWD / Institute and they shall **not** interact with the students or any other person(s) from the Institute.

14. List of Mandatory Documents to be scanned and uploaded by intending bidders in JPG format or PDF format within the period of bid submission date:

1	Letter of transmittal as per Form "H".
2	Scanned copy(s) of insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank against EMD as prescribed. EMD shall be made / issued only from the account of the bidder / tenderer submitting the bid/tender. EMD made/ issued from the account other than that of the bidder/ tenderer submitting the bid, shall not be accepted.
3	Copy of receipt for deposition of original EMD to the division office of any Executive Engineer, CPWD (including NIT issuing EE).
4	Enlistment order of the CPWD enlisted contractor in the appropriate class.
5	The intending bidders must have to upload the necessary certificates of ERP (Enterprises Resource Planning) training issued through LMS (Learning Management System) of ERP.
6	GST registration certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with 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 CPWD, 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 CPWD or GST department in this regard".
7	Affidavit for non-blacklisting as per Form "G".
8	Undertaking on structural stability and soundness as per Form "F".
9	Declaration about site inspection as per Form "I".

10	The contact details of the Agency authorized signatory, including email ID, official address, and contact number, shall be provided on the agency's letterhead. Further, the contact details of the concerned bank official (email ID and contact number) shall also be furnished for verification of the EMD amount as per Form "J".
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However, certified copy of all the scanned and uploaded documents as specified in bid document shall have to be submitted by the lowest bidder within Seven (7) days from date of opening of bid, physically in the office of tender opening authority.

**Executive Engineer & Senior Manager (C) ,
Tirupati Project Division -II,
CPWD, Tirupati**

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER
CPWD-6 for e-Tendering

1. **Online percentage rate** bids are invited on behalf of President of India from eligible CPWD enlisted contractors in Building and Road category in single bid system for the work: - **“Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh”**.

The work is estimated to cost **Rs. 27,22,637/-**. This estimate, however, is given merely as a rough guide.

2. Agreement shall be drawn with the successful bidder on prescribed Form No. **CPWD 7** (or other Standard Form as mentioned) which is available at Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.
3. **The time allowed for carrying out the work** will be 01 (One) 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. i). Site for **“Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh”**. will be made available on **“as is where is”** basis.
ii). All the drawings are 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 Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> at 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.
7. While submitting the revised bid, contractor can revise the **consolidated percentage rate** any number of times but before last time and date of submission of bid as notified.
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (**drawn in favour of Executive Engineer and Senior Manager (C), Tirupati Project Division I, CPWD, Tirupati**) shall be scanned and uploaded to the eTendering 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, CPWD within the period of bid submission.
- The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format uploaded by tender inviting EE in the NIT. A part of earnest money is acceptable in the form of Bank Guarantee also. In such cases 50% of earnest money or Rs. 20 lakh whichever is less, will

have to be deposited in shape prescribed above and balance can be deposited in shape of Bank Guarantee issued by a Commercial Bank, having validity for a period of 90 days or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. Copy of Enlistment Order and certificate(s) of work experience and other documents as specified in the notice inviting e-tenders shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in the e-tender notice shall have to be submitted by the lowest bidder **within 7 (Seven) days** from the date of opening of financial bid 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 CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at **06:00 PM on 19/08/2026**.

9. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
- The bidder is found ineligible.
 - The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - 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.,
 - 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.
10. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount 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 and Programme Chart (Time and Progress) within the period specified in Schedule 'F'.

11. The description of the work is as follows:

- a. Providing and laying polymer modified cementitious repair mortar for repair, levelling and surface correction of existing concrete, including surface preparation, mixing, application and finishing.
- b. Removing existing steel basketball post by cutting at ground level, including dismantling and disposal of dismantled material and filling the void with cement concrete 1:1½:3.
- c. Providing and laying ITF-certified customized 7-layer acrylic tennis court flooring system, including primer, resurfacer, precoat and UV-resistant topcoat, complete as per manufacturer's specifications.
- d. Providing, supplying and installing heavy-duty movable basketball goal system conforming to international standards, including steel base frame, projection arms, tempered acrylic backboard, breakaway ring with nylon net, counterweights and heavy-duty wheels.
- e. Providing, supplying, installing, testing and commissioning of electronic display Score board for basket ball as per the standards., etc complete as required.

- 12)** 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 their 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. 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 if put forth by the bidders shall be summarily rejected.
- 13)** Canvassing whether directly or indirectly, in connection with bids is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
- 14)** 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.
- 15)** The contractor shall not be permitted to bid for the works in the CPWD Zone/ Circle/Division/Sub- Division 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 Chief 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 officer working in the Central Public Works Department. Any breach of this condition by the contractor would render him liable to be debarred for a period upto two years from tendering in CPWD as decided by the accepting authority mentioned in Schedule F and his decision will be excepted from clause 25.

16) 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.

17) The bid for the works shall remain open for acceptance for a period of **Thirty (30) days** from the date of opening of bids. Further,

- I. If any tenderer withdraws his tenders or makes any modifications in the terms & condition of the tender which is not acceptable to the department within 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the Earnest money absolutely, irrespective of letter of acceptance for the work is issued or not.
- II. If any tenderer withdraws his tender or makes any modification in the terms and conditions of the tender which is not acceptable to the department after expiry of 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the Earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- III. If contractor fails to furnish the prescribed performance guarantee within the prescribed period, the earnest money is absolutely forfeited to the President automatically without any notice.

Withdrawal of the tender, by the tenderer shall be only made through e-tender portal. Any other method i.e. through letter/e-mail etc shall not be considered.

In case of forfeiture of Earnest money as prescribed in Para (i), (ii) and (iii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

18) This notice inviting Bid shall form a part of the contract document. The successful bidder / contractor, on acceptance of his bid by the accepting authority shall within 15 (Fifteen) days from the stipulated date of start of the work, sign the contract consisting of:-

- a. The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the 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.

b. Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.

19) The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the concerned Executive Engineeror ERP help line No. **18001803286** or e-mail Id: **cpwd.support@techmahindra.com**. The e-tendering bidders are also advised not to wait to raise any issues tillthe last date of submission of bid in their own interest.

**Executive Engineer & Senior Manager (C) ,
Tirupati Project Division -II,
CPWD, Tirupati**

RECEIPT OF DEPOSITION OF ORIGINAL EMD

(Receipt No. / Date)

Name of work: Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.

1	N.I.T. No. :	04/NIT/EE & SM(C)/TPD-II/2026-27
2	Estimated Cost put to tender :	Rs. 27,22,637/-
3	Amount of Earnest Money Deposit as per NIT :	Rs. 54,453/-
4	Last date of submission of bid :	19/08/2026
5	Name of the Contractor :	----- #
6	Form of EMD :	----- #
7	Amount of Earnest Money Deposit submitted (Issued in favour of "Executive Engineer& SM (C), Tirupati Project Division-I, CPWD, Tirupati :	----- #
8	Date of submission of EMD :	----- #
9	Signature: Name and Designation of EMD Receiving officer (EE/AE(P)/AE/AAO) along with office seal.	

(# To be filled by EMD receiving EE/AE(P)/AE/AAO)

C.P.W.D – 7

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE : Andhra Pradesh

ZONE: CE cum ED, TPZ, Tirupati

DIVISION: Executive Engineer and SM (C), TPD-II, CPWD, TIRUPATI.

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Name of Work: Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.

Tender for the above work:-

- i. To be submitted/uploaded upto **17:30 on 19/08/2026** on website <https://etender.cpwd.gov.in>.
- ii. To be opened in the presence of bidders who may be present at 18:00 on **19/08/2026** in the office of the Executive Engineer and SM (C), TPD II, CPWD Tirupati.

TENDER

I / We have read and examined the notice inviting tender, schedule, Specifications applicable, Drawings & Designs, General Rules and Directions, General Conditions of Contract 2023 for construction works with all amendments up to the last date of submission of tenders, clauses of contract, Special conditions, Description of Work & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I / We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule "F" viz., Description of work 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 as per Clause 11 of the General Conditions of contract 2023 for construction works with all amendments up to the last date of submission of tenders and with such materials as are provided for, by and in respect of and in accordance with such conditions so far as applicable.

I / We agree to keep the tender open for **Thirty (30) days** from the date of opening of bid and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount **Rs.54,453/-** in the office of concerned Executive Engineer as per the bid.

A copy of earnest money in the shape of Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from a Commercial Banks 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 said earnest money absolutely. 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 the complete project referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12 of the tender form. Further, I / We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

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

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

Dated:.....

Signature of Contractor

Postal Address

Witness:

Address:

Occupation

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on 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)

For & on behalf of President of India

Signature:

Dated: **

Designation: **

PROFORMA OF SCHEDULES A to F

SCHEDULE 'A'

Schedule of Quantities : As provided in this bid document
Estimated Cost put to Tender : **Rs. 27,22,637/-**

SCHEDULE 'D'

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

SCHEDULE 'E'

Reference to General Conditions of contract : **GCC 2023 for Maintenance Works** as amended/modified up to last date of submission of tender.

Name of Work: : **Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.**

Estimated Cost put to Tender (Composite) : **Rs. 27,22,637/-**

(i) Earnest money : **Rs. 54,453** (To be returned after Receiving Performance Guarantee).

(ii) 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.

(iii) Security Deposits : 2.5% of tendered / accepted value.

SCHEDULE 'F'- General Rules & Directions:

Officer inviting tender	:	Executive Engineer and SM(C), TPD-II, CPWD, Tirupati.
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3	:	See below under Clause 12.
Definitions		
Engineer-in-Charge	:	Executive Engineer and SM (C) TPD-II, CPWD, Tirupati or successor thereof.
Accepting Authority	:	Executive Engineer and SM (C) TPD-II, CPWD, Tirupati or successor thereof.
Percentage on cost of materials and labour to cover all overheads and profits.	:	15%
Standard schedule of Rates	:	Delhi Schedule of Rates (CIVIL) 2023 with up to date correction slips.
Department	:	Central Public Works Department.
Standard CPWD contract Form GCC 2023, CPWD-7 as modified & corrected up to	:	GCC 2023 for Maintenance Works & CPWD - 7 as amended/modified up to last date of submission of e-tender.
Clause 1		
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.	:	03 days.
Maximum allowable extension with late fee at 0.1% per day of performance Guarantee amount beyond the period as provided in (i) above	:	01 day
Clause 2		
Authority for fixing compensation under clause-2.	:	Chief Engineer cum ED, TPZ, Tirupati. or successor thereof.
Clause 2A		
Whether clause 2A shall be applicable	:	Not Applicable
Clause 5		
Number of days from the date of issue of letter of acceptance for reckoning date of start	:	04th Day

MILE STONE(S) AS PER TABLE GIVEN BELOW

Sl. No.	Description of Milestone (Activity wise)	Time Allowed (from date of start)	Amount to be withheld in case of non-achievement of milestone
1	Completion of surface treatment, preparation of base surface in all respects to receive the acrylic flooring system.	15 days	2.50% of total tendered amount
2	Laying of acrylic flooring system, supplying of basket ball movable type back boards, score boards and handing over the site	15 days	2.50% of total tendered amount
Time Period allowed for execution of Work: - 30 Days			
Authority to decide:			
i	Authority to convey the decision of shifting of milestone and extension of time. (Engineer-in-Charge or Engineer-in-Charge of Major Component in case of Composite Contracts, as the case may be)	:	Executive Engineer and SM(C), TPD-II, CPWD, Tirupati or successor thereof
ii	Authority to decide rescheduling of milestone and extension of time. (SE/SE&PD/ CE/ CE&ED).	:	Chief Engineer cum Executive Director, TPZ, CPWD, Tirupati or his successor thereof
iii	Shifting of date of start in case of delay in handing over of site. (SE/SE&PD/CE/ CE&ED).	:	Chief Engineer cum Executive Director, TPZ, CPWD, Tirupati or his successor thereof

Schedule of handing over of site:

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	Full Site available	Handing of site as per letter of commencement
Part B	Portions with encumbrances	NA	NA
Part C	Portions dependent on work of other agencies	NA	NA

Clause 6 : Applicable

(i) Mode of measurement: Computerised Measurement Book (CMB)/EMB

Clause 7 Gross work to be done together with net Payment/adjustment of advances for material collected, if any since the last such payment for being eligible to interim payment	: Rs. 15 lakhs or part thereof as per discretion of Engineer – In – Charge.
Clause 7A Whether clause 7A shall be applicable:	<i>Yes (a) (No Running Account bill/final bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and Welfare Board, whatever applicable are submitted by the contractor to the Engineer - In-Charge.)</i> <i>As per Modifications in clause 7A of GCC 2023 construction works vide circular no DG/CON/Construction 2023/15 dated 31.01.2025</i> <i>(b)The following documents shall also be part of the bill submitted by the contractor (these documents shall be owned by the contractor) before making payment: -</i> <i>1. Details of person employed with date of their employment up to previous month.</i> <i>2. Documents of payment made to the employees directly into their bank accounts up to previous month.</i> <i>3. Documents of attendance through biometric attendance or other mode up to previous month.</i> <i>4. Documents of deposition of EPF and ESI deductions in the employees accounts</i>

		<i>up to previous month.</i> <i>5. Any penalty imposed on the agency for delay in disbursing payment and deposition of EPF and ESI deductions in the employee's accounts up to previous month.</i> <i>6. Any other document(s) required as per statutory requirements and/or as directed by Engineer-inCharge.</i> <i>(c) In case, any of the documents submitted by the contractor is found false/forged at a later date, action for debarment of contractor will be taken by the SE/CE concerned.</i>
Clause 8A Authority to decide compensation on account if contractor fails to submit completion plans		Not Applicable
Clause 10A List of testing equipment to be provided by the contractor at site lab.	:	As per Table attached
Clause 10 B(ii) Whether clause 10-B (ii) shall be applicable	:	Not Applicable
Clause 10C Component of Labour expressed as percent of value of work.	:	Not Applicable

Clause 10CC	:	Not Applicable
Clause 11 Specifications to be followed for execution of work	:	CPWD Specifications 2019 Vol. 1 and Vol. 2, with correction slips upto the last date of submission /uploading of the bid.
Clause 12	:	Type of work: Maintenance Work
12.2& 12.3 Deviation limit beyond which clauses 12.2& 12.3 shall apply.	:	No limit

Clause 16 Competent authority for deciding the reduced rates	:	Chief Engineer cum ED, TPZ, Tirupati.
Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site	:	All T&P and machinery required for executing the work shall be deployed by the contractor
Clause -19C:- Authority to decide penalty for each default		Engineer-in-Charge-authority to decide penalty for each default
Clause -19D: - Authority to decide penalty for each default		Engineer-in-Charge-authority to decide penalty for each default
Clause -19G: - Authority to decide penalty for each default		Engineer-in-Charge-authority to decide penalty for each default.
Clause -19K: - Authority to decide penalty for each default		Engineer-in-Charge-authority to decide penalty for each default.
Clause - 25 - i) Conciliator	:	The Additional Director General, Hyderabad or successor thereof.
ii) Arbitrator Appointing Authority	:	Chief Engineer cum Executive Director, Tirupati Project Zone, CPWD or his successor.
(iii) Place of Arbitration	:	Hyderabad

Clause 32: Requirement of Technical Representative(s) and recovery rates

S. No.	Requirement of Technical Staff		Minimum experience (Years)	Designation of Technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32(i)
	Qualification	Number			
1	Graduate Engineer or Diploma Engineer	1	2 or 5 respectively	Project Planning cum planning/quality/Site/Billing Engineer	Rs. 15,000/-per month per person

Note:

- Assistant Engineers retired from Government services who are holding Diploma will be treated at par with Graduate Engineers.
- Diploma holder with minimum 10-years relevant experience with a reputed construction company can be treated at par with Graduate Engineers for the purpose of such deployment subject to that such diploma holder should not exceed 50% of requirement of

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

degree engineers.

3. The bidder shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form – 16 or CPF deduction issued to the Engineers employed by him) along with every account bill / final bill and shall produce evidence of regular physical availability of such engineers on the above project whenever required by the Engineer-in-charge.

Clause 38

(i) (a) Schedule / statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates (Civil) 2023 printed by C.P.W.D. with correction slips up to the last date of submission of bids.

(ii) Variations permissible on theoretical quantities.

Cement for works with estimated cost put to tender more than 25 lakhs	: 2% plus/minus
Bitumen for all works	: 2.5% plus & nil on minus side
Steel Reinforcement and structural steel sections for each diameter, Section and category	: 2% plus/minus
All other materials	: Nil

Threshold value (Estimated cost put to tender) at and above which integrity pact would be applicable : Rs. 300 Crore

(ii) Particulars of IEMs appointed by CVC : Not applicable

**Executive Engineer and SM (C)
TPD-II, CPWD, Tirupati.**

B L A N K

On non-judicial stamp paper of minimum Rs. 100**(Guarantee offered by Bank to CPWD in connection with the execution of contracts)****Form of Bank Guarantee for Earnest Money Deposit /Performance Guarantee/Security
Deposit/Mobilization Advance**

1. Whereas the Executive Engineer (name of division), CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under(NIT number)..... dated for (name of work) The Government has further agreed to accept irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)*..... as Earnest Money Deposit 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 (name of division), CPWD 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.
2. 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.
3. 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. (Rupeesonly)
4. 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

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

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.

5. 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.
6. 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.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. We, (indicate the name of the Bank), undertake not to revoke this guarantee except with the consent of the Government in writing.
9. 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 | Authorized signatory |
| Name and address | Name |
| | Designation |
| | Staff Code no. |
| 2. Signature | Bank Seal |
| Name and Address | |

Note:

1. *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.
2. ** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or performance guarantee / security deposit / mobilization advance, as the case may be.
3. The Bank Guarantee shall be drawn on non-judicial stamp paper of minimum Rs.10

SECTION -I

BRIEF PARTICULARS OF THE WORK

Salient details of the work for which bids are invited are as under:

Sl. No.	Name of work	Estimated cost	Period of completion
1	Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.	Rs. 27,22,637 /-	30 days
2	The work is situated at IIT Tirupati campus, Tirupati, Yerpedu Mandal, Tirupati Dist., A.P.		
3	a. Providing and laying polymer modified cementitious repair mortar for repair, levelling and surface correction of existing concrete, including surface preparation, mixing, application and finishing. b. Removing existing steel basketball post by cutting at ground level, including dismantling and disposal of dismantled material and filling the void with cement concrete 1:1½:3. c. Providing and laying ITF-certified customized 7-layer acrylic tennis court flooring system, including primer, resurfacer, precoat and UV-resistant topcoat, complete as per manufacturer's specifications. d. Providing, supplying and installing heavy-duty movable basketball goal system conforming to international standards, including steel base frame, projection arms, tempered acrylic backboard, breakaway ring with nylon net, counterweights and heavy-duty wheels. e. Providing, supplying, installing, testing and commissioning of electronic display Score board for basket ball as per the standards., etc complete as required.		
4	The Work shall be executed according to the General Conditions of Contract 2023 for maintenance works with all correction slips issued up to the last date for submission of bid.		
5	Work shall be executed according to General Conditions of Contract for Central P.W.D. Works available separately at printer's outlets. The bidder may obtain the address of the outlets from the Executive Engineer.		

SECTION -II

INFORMATION AND INSTRUCTIONS FOR BIDDERS

1.0 GENERAL:

- 1.1 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a “nil” or “no such case” entry should be made in that column. If any particulars / query is not applicable in case of the bidder, it should be stated as “not applicable”. The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bid being summarily disqualified. Bids made by telegram or telex and including those received late will not be entertained.
- 1.2 References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the bidder should be signed by an officer not below the rank of Executive Engineer or equivalent.
- 1.3 The bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is however, advised not to furnish superfluous information.

2.0 DEFINITIONS:

- 2.1 In this document the following words and expressions have the meaning hereby assigned to them:
- 2.2 **EMPLOYER:** Means the President of India, acting through the Executive Engineer and senior manager (C), Tirupati Project Division-II, CPWD, Tirupati or successor thereof.
- 2.3 **BIDDER:** Means the individual, proprietary firm, firm in partnership, limited company (private or public) or corporation.
- 2.4 **“Year”** means “Financial Year” unless stated otherwise.
- 2.5 **“IIT Tirupati”** means Indian Institute of Technology, Tirupati.
- 2.6 **“TPZ”** means Tirupati Project Zone, CPWD, Tirupati.

3.0 METHOD OF APPLICATION:

- 3.1 If the bidder is an individual, the application shall be signed by him above his full type written name and current address.
- 3.2 If the bidder is a proprietary firm, the application shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current address.
- 3.3 If the bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full typewritten names and current address, or, alternatively, by a partner holding power of attorney for the firm. In the later case a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.

- 3.4 If the bidder is a limited company or a corporation, the application shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.

4.0 FINAL DECISION MAKING AUTHORITY

The employer reserves the right to accept or reject any bid and to annul the process and reject all bids at any time without assigning any reason thereof or incurring any liability to the bidders.

5.0 PARTICULARS PROVISIONAL

The particulars of the work given in Section I are provisional. They are liable to change and must be considered only as advance information to assist the bidder.

6.0 SITE VISIT

The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to satisfy himself and collect all information that he considers necessary for proper assessment of the prospective assignment.

7.0 Opening of Price bid

After evaluation of applications, a list of short listed agencies will be prepared. Thereafter the financial bids of only the qualified and technically acceptable bidders shall be opened at the notified time, date and place in the presence of the qualified bidders or their representatives.

8..0 Award Criteria

- 8.1 The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:
- a) Amend the scope of work and value of contract.
 - b) Reject any or all the applications without assigning any reason.
- 8.2 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.

FORM 'F'

**UNDERTAKING ON STRUCTURAL STABILITY AND SOUNDNESS OF
ALREADY COMPLETED BUILDINGS AND INFRASTRUCTURE PROJECTS**

I/we undertake and confirm that any building / infrastructure constructed by our firm /partnership firm/ company has not suffered any failure, making it unfit for intended use, either due to structural design and defects or due to use of sub-standard materials or execution of sub-standard work, poor workmanship or any other reason during the last 25 (twenty-five) years.

I/we, further, undertake that if such information comes to the notice of CPWD, then Engineer-in- Charge shall be free to terminate the bid/agreement and to forfeit the entire amount of earnest money deposit, performance guarantee and security deposits.

I/we, also undertake that in addition to above, the Engineer-in-Charge shall be free to debar us forever from tendering in CPWD.

The decision of Engineer-in-Charge or any higher authority shall be final and binding.

Signature of Notary with seal

Signature of bidder or an
authorized person of firm
with stamp

Note: Affidavit to be furnished on a 'Non-judicial' stamp paper of Rs. 200/- (scanned copy of the notarized affidavit to be uploaded at the time of submission of bid).

Form 'G': Affidavit for Non-Blacklisting

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

Signature of Notary with seal

Signature of bidder or an
authorized person of firm with
stamp

Note: Affidavit to be furnished on a 'Non-judicial' stamp paper of Rs. 200/- (scanned copy of the notarized affidavit to be uploaded at the time of submission of bid).

Form H: Letter of transmittal

From

.....
.....

To

The Executive Engineer & Senior Manager(C)
TIRUPATI Project Division II
CPWD, TIRUPATI.

Subject: Submission of bids for the work of “Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh”.

Sir,

Having examined the details given in the bid document for the above work, I/we hereby submit the relevant information.

1. I/we hereby certify that all the statement made and information supplied in the enclosed forms “F , G, I and J” are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we hereby submit undertaking on structural stability and soundness as per the prescribed format (Form-“F”).

Certificate: It is certified that the information given with this bid are correct. It is also certified that I/we shall be liable to be debarred, disqualified/cancellation of enlistment in case any information furnished by me/us found to be incorrect.

Enclosures: Seal of bidder

Date of submission:

Signature(s) of bidder(s).

Form I: Declaration about site inspection

To,
The Executive Engineer & Senior Manager(C)
TIRUPATI Project Division II
CPWD, TIRUPATI.

Subject: N.I.T. No. 04/NIT/EE & SM(C)/TPD-II/2026-27 for the “Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh”.

Dear Sir,

It is hereby declared that as per CPWD-6 FOR e-BIDDING, S.no.12 Page 17, I/ We the bidder inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site. I/We ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date.

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

Yours faithfully
(Duly authorized signatory of the bidder)

Form “J”

To,
The Executive Engineer & Senior Manager(C),
Tirupati Project Division II,
CPWD, Tirupati.

Subject: Submission of contact details and Bank Official for verification of EMD – Reg.

Ref: NIT No. 04/NIT/EE & SM(C)/TPD-II/2026-27

Dear Sir,

With reference to the above-mentioned tender, we hereby furnish the contact details of our **Authorized Signatory** and the **concerned Bank Official** for official communication and verification of the Earnest Money Deposit (EMD) submitted by our Agency.

1.	Name of the Agency	
2.	Adress for official communication	
3.	Email ID	
4	Name & address of Bank from which EMD is drawn	
5	Official E-mail ID/Ph No of Bank Official	

Yours faithfully
(Duly authorized signatory of the bidder)

Seigniorage Charges

Government of Andhra Pradesh ordered that all the Government Engineering Departments, Corporations, Local Bodies in Andhra Pradesh shall remit the

Seigniorage Fee, DMF & MERIT with the Government notified rates from time to time for the minor mineral quantities that are consumed in the public works.

1. Seigniorage fee w.e.f. 26-06-2025 GO MS No.100.
2. District Mineral Foundation (DMF @30%of Seigniorage fee).
3. MERIT(Mineral Exploration, Research and Innovation Trust) @ 2% of seigniorage fee.

GO MS No.100

GOVERNMENT OF ANDHRA PRADESH ABSTRACT

Mines & Minerals – Minor Minerals – Comprehensive Amendments to Andhra Pradesh Minor Mineral Concession Rules, 1966 to implement AP Minor Mineral Policy 2025 and Modified Sand Policy 2024 – Notification – Orders - Issued.

=====

INDUSTRIES & COMMERCE (MINES-II) DEPARTMENT

G.O.MS.No.100 Dated: 26/06/2025

Read the following:

- (1) G.O. Ms. No. 1172, Ind & Com (Mines), dated 04.09.1967
- (2) G.O. Ms. No. 43, Ind & Com (Mines-III), dated 08.07.2024
- (3) G.O. Ms. No. 49, Ind & Com (Mines-III), dated 02.09.2024
- (4) G.O. Ms. No. 59, Ind & Com (Mines-III), dated 01.10.2024
- (5) G.O. Ms. No. 66, Ind & Com (Mines-III), dated 25.10.2024
- (6) G.O. Ms. No. 57, Ind & Com (Mines-III), dated 18.04.2025
- (7) From the Commissioner & Director of Mines & Geology, AP, single e-file bearing Comp No. XXXXXX, dt.XX.XX.2025.

ORDER:

In the references 2nd to 5th cited above, the Government has issued guidelines from time to time for the effective implementation of the Free Sand Policy, with the objective of making sand available to the general public free of cost, except for the recovery of operational expenses. As part of these guidelines, the Commissioner and Director of Mines and Geology were directed to examine the existing provisions and submit proposals for suitable amendments to the Andhra Pradesh Minor Mineral Concession (APMMC) Rules to ensure alignment with the objectives of the Free Sand Policy.

2. In the reference 6th read above, Government have introduced the Andhra Pradesh Minor Mineral Policy 2025 to foster responsible mining, attract investments, ensure sustainable practices, and further position the sector as a key contributor to economic growth and employment generation in the State and directed the Commissioner & Director of Mines & Geology A.P. to submit proposals for necessary amendments to Andhra Pradesh Minor Mineral Concession Rules, 1966.

3. In this regard, Commissioner and Director of Mines & Geology vide reference e-file 7th read above proposed comprehensive amendments to Andhra Pradesh Minor Mineral Concession Rules, 1966 and requested the Government to issue the amendments to the existing Andhra Pradesh Minor Mineral Concession Rules, 1966 for implementation of the Andhra Pradesh Minor Mineral Policy 2025 and Modified Free Sand Policy.

4. Government after careful examination of the circumstances reported by the Commissioner & Director of Mines & Geology, A.P. vide e-file 7th read above, have decided to make amendment to Rules 4, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 26, 27, 28, 31, 33, 34, 35 and 37 of the Andhra Pradesh Minor Mineral Concession Rules, 1966

5. Accordingly, the following notification will be published in an Extra Ordinary issue of the Andhra Pradesh Gazette, Dt:26.06.2025.

NOTIFICATION

In exercise of the powers conferred by sub section (1) of section 15 of the Mines and Minerals (Development and Regulation) Act, 1957 (Central Act 67 of 1957), as amended from time to time, the Governor of Andhra Pradesh hereby makes the following amendment to the Andhra Pradesh Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No.1172, Industries & Commerce (B.I) Department, 4th September, 1967 as subsequently amended:

AMENDMENT

For Schedule - I, II, III and IV appended to Rule 10, the following shall be substituted, respectively, namely :

“SCHEDULE – I” (RATES OF SEIGNIORAGE FEE)

S.No	Name of Minor Mineral	Unit	Rate of Seigniorage Fee (in Rupees)
1	Agate	MT	180
2	Ball Clay	MT	130
3	Building Stone	MT	105
4	Calcareous Sand	MT	115
5	Calcite	MT	160
6	Chalcedony Pebbles	MT	105
7	Chalk	MT	120
8	China Clay	MT	105
9	Clay (Others)	MT	105
10	Corundum	MT	150

S.No	Name of Minor Mineral	Unit	Rate of Seigniorage Fee (in
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			Rupees)
11	Diaspore	MT	520
12	Dimensional Stone used for Cubes & Kerbs	MT	170
13	Dolomite	MT	115
14	Dunite/ Pyroxenite	MT	75
15	Felsite	MT	160
16	Fireclay	MT	105
17	Fullers Earth/ Bentonite	MT	225
18	Fuschite Quartzite	MT	160

19. Granite useful for cutting & polishing

S.No	Item	Unit	Above Gangsaw/ > 270 cm x 150 cm size	Below Gangsaw/ 270 cm x 150 cm & below size
1.	Black Galaxy Granite	MT	1830	1530
2.	Black Granite other than Black Galaxy	MT	1520	1300
3.	Color Granite (Srikakulam Blue, Moon White, River White of Visakhapatnam Dist., Leptinites of Coastal Dists, Black Pearl of Prakasam & Guntur Dist)	MT	1660	1410
4.	Color Granite (Silver Waves, Madanapalli White, & Iscon White)	MT	1360	1200
5.	Color Granite (Others)	MT	940	720

S.No.	Name of the minor mineral	unit	Rate of Seigniorage Fee (in Rupees)
20.	Laterite		
i	Dispatched for use in Alumina & Aluminium metal extraction	MT	350
ii	For use other than Alumina & Aluminum metal extraction & export	MT	175
21	Limekankar/ Limestone	MT	160
22	Lime Shell	MT	210
23	Limestone (Slabs)		
i.	Color	Sq. Mtr/ MT	12/150
ii.	White	Sq. Mtr/ MT	12/150

iii.	Black	Sq. Mtr/ MT	8/140
24	M-Sand	MT	75
25	Marble	MT	150
26	Morrum/ Gravel & Ordinary Earth	MT	55
27	Mosaic Chips	MT	160
28	Ochre	MT	105
29	Ordinary Clay, Silt and Brick Earth used in Manufacture of Bricks including Tiles	Per Kiln per annum	10,000
30	Ordinary Sand	MT	0
31	Pyrophyllite	MT	250
32	Quartzite	MT	160
33	Rehmati	MT	45
34	Road Metal & Ballast	MT	105
35	Rough Stone/ Boulders	MT	105
36	Sand (Others)	MT	175
37	Shale	MT	180
38	Shingle	MT	105
39	Silica Sand	MT	260
40	Slate	MT	175
41	Steatite/ Soap Stone	MT	660
42	White Shale	MT	315
43	White Clay	MT	315

**“SCHEDULE – II”
RATE OF DEAD RENT**

S.No.	Mineral	Dead Rent (Rupees/ Ha/ Annum)
1	Black Galaxy Granite and Black Granite	1,80,000
2	Color Granite (Srikakulam Blue, Moon White, River White of Visakhapatnam Dist., Leptinites of Coastal Dists, Black Pearl of Prakasam & Guntur Dist, Silver Waves, Madanapalli White and Iscon White)	1,50,000
3	Color Granite (Others)	1,30,000
4	Limestone other than classified as major minerals used for lime burning for Building construction purposes, marble, boulders, building stone including stone used for Road Metal, Ballast, Manufactured sand, concrete & other construction purpose, Shale, Slate & Phyllites, Mosaic Chips, Fullers Earth/Bentonite & Dimensional Stone used for Cubes and Kerbs	80,000
5	Gravel, Morrum, Ordinary Earth, Shingle, Limestone Slabs used for flooring purpose, Lime kankar, Chalcadeny Pebbles used in the building purpose, limeshell for burning used for building purposes, and Rehmati	65,000
6	All minor minerals which are not covered under Sl. No. 1 to 5 above	30,000

“SCHEDULE – III”

RATE OF SEIGNIORAGE FEE UNDER SLAB SYSTEM

Those who possess stone cutting and polishing industries and joined in slab system, the computation of Seigniorage Fee, DMF & MERIT in respect of raw material consumed in their industries is as per the following:

S. No.	Type of Blade	Slab Rate in Rupees per month per blade	Ceiling Limit per month per blade
a	Block cutter with single blade involved in cutting Granite Blocks below 270 cm x 150 cm size in erstwhile Prakasam District	35,000	22 Cu.M
b	Block cutter with multi blade involved in cutting Granite Blocks below 270 cm x 150 cm size in erstwhile Prakasam District	70,000	44 Cu.M
c	Block cutter with single blade involved in cutting Granite Blocks below 270 cm x 150 cm size in other	28,000	22 Cu.M

	than erstwhile Prakasam District		
d	Block cutter with multi blade involved in cutting Granite Blocks below 270 cm x 150 cm size in other than erstwhile Prakasam District	56,000	44 Cu.M
e	Composite rate (Seigniorage Fee, DMF & MERIT) per Sq. M for the blocks procured beyond ceiling limit considering average yield per each Cu.M as 33 Sq. M	Rs. 90	
f	Composite rate (Seigniorage Fee, DMF & MERIT) per Sq. M for the blocks procured beyond ceiling limit considering average yield per each Cu.M as 33 Sq. M	Rs. 75	

**“SCHEDULE – IV”
LIST OF MINERALS**

Part – A

1. Granite
2. Marble

Part – B

1. Agate
2. Ball Clay
3. Calcareous Sand
4. Calcite
5. Chalk
6. China Clay
7. Clay (Others)
8. Corundum
9. Diaspore
10. Dolomite
11. Dunite/ Pyroxenite
12. Felsite
13. Fire Clay
14. Fuschite Quartzite
15. Gypsum
16. Jasper
17. Kaolin
18. Laterite
19. Limekankar/ Limestone (Minor)

20. Ochre
21. Pyrophilite
22. Quartzite
23. Sand (Others)
24. Shale
25. Silica Sand
26. Steatite/ Talc/ Soapstone
27. White Clay
28. White Shale

Part – C

1. Building Stone
2. Chalcedony Pebbles
3. Dimensional Stone used for Kerbs& Cubes
4. Fullers Earth/ Bentonite
5. Limeshell
6. Limestone Slabs (Color/ White/ Black)
7. Manufactured Sand
8. Morrum/ Gravel & Ordinary Earth
9. Mosaic Chips
10. Rehmati
11. Road Metal & Ballast
12. Rough Stone/ Boulders
13. Shingle
14. Slate

Part – D

1. Ordinary Sand
- XLVI. In Form - G,

- (1) for the marginal heading “FORM OF LEASE FOR MINOR MINERALS” shall be substituted.
- (2) Following shall be inserted in Clause 14 “In the case of major minerals or atomic minerals, the lessee or registered holder shall not win, extract, or dispose of such minerals and intimate the Assistant Director of Mines & Geology concerned within 30 days of discovery for necessary action, as prescribed under the applicable laws and rules”

(BY ORDER IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

PRAVIN KUMAR

SECRETARY TO GOVERNMENT
(MINES)

To

The Commissioner & Director, Mines & Geology, A.P, Ibrahimpatnam, NTR District

Copy to:

The Secretary to Govt, Ministry of Mines, Govt of India, Shastry Bhawan, New Delhi.

All the District Collectors

All the members of District Level Sand Committees

The Finance (FMU, I&C, I&I & Energy) Department

The Law Department.

The PS to Spl.CS to CM.

The OSD to Minister (Mines & Geology)

The PS to Secy. to Govt (Mines)

SF/SC (C.No: 2791129)

//FORWARDED :: BY ORDER//

SECTION OFFICER

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PART-B

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SPECIAL CONDITIONS

1.0 General

1.1 Specifications & Order of preference:

- 1.1.1 Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications (CIVIL) 2019 Vol. I & II" with upto date correction slips, additional / Particular Specifications, Architectural / structural drawings and as per instructions of Engineer-in-Charge.
- 1.1.2 Several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scaled dimensions.
- 1.1.3 If there is any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc., the following order of preference shall be observed
- (i) Description of items as given in Schedule of Quantities.
 - (ii) Particular Specifications, Special Conditions and Additional conditions, if any.
 - (iii) Drawings.
 - (iv) CPWD Specifications.
 - (v) General conditions of contract for CPWD works.
 - (vi) Indian Standard Specifications of B.I.S.
 - (vii) Manufacturers' specifications & as decided by Engineer-in-charge.
 - (viii) Sound Engineering practices.

"In the event of any variation/ discrepancy in the drawings, specifications and tender documents etc. the decision of the Engineer-in-charge shall be final binding and conclusive on the contractor and in the case the contractor have any doubt and the same should be got clarified immediately from the Engineer-in-charge and no claim of the contractor shall be entertained thereafter. Moreover, the agency is not allowed to take benefit out of any clerical/grammatical mistake in the standard clauses / Schedule of Quantities / Specifications etc. being used in the agreement".

- 1.1.4 Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. **The Contractor shall keep at his own cost all such publications including relevant Indian Standard Codes applicable to the work at site.**

1.2 Scope:

- 1.2.1 The works to be governed by this contract shall cover delivery and transportation up to destination, safe custody at site, insurance, erection, testing and commissioning of the entire works.
- 1.2.2 The works to be undertaken by the contractor shall inter alia include the following:
- Preparation of as built drawings wherever applicable.
 - Obtaining of Statutory permissions wherever applicable and required.
 - Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and Rules wherever required.
 - Warranty obligation for the equipment and/or fittings/fixtures supplied by the contractor.
- 1.2.3 Contractor shall provide all the shop drawings or layout drawings for all the co-ordinated services before starting any work or placing any order for any of the services etc. These shop drawings/layout drawings shall be got approved from Engineer-in-charge before implementation and this shall be binding on the contractor. The contractor shall submit material submittals along with material sample for approval of Engineer-in-charge prior to delivery of material at site.
- 1.2.4 All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.
- 1.3 Deployment of Technical staff & skilled labour:**
- 1.3.1 The quality of work is of paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipments to execute the work to provide the desired quality. ~~Many items & specialized works will require engagement of specialised agencies & skilled workers having experience in execution of such items.~~
- 1.3.2 The Contractor shall depute Site Engineer & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision making powers shall be available to the representatives of the contractor at site itself to avoid any likely delays on this account. The contractor shall also furnish list of persons for specialized works to be executed for various items of work. The Contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise. If during the course of execution of work, the Engineer-in-Charge is of the opinion that the deployed staff is not sufficient or not well experienced, the Contractor shall deploy more staff or better-experienced staff at site to complete the work with quality and in stipulated time limit.
- 1.4 Removal of Machinery, Tools & Equipment:**
- 1.4.1 Removal of machinery, tools & equipment shall be allowed to be moved away from the site only when, in written opinion of Engineer-in-Charge, the same are no longer required at site of work.
- 1.5 Soil conditions of site:**

- 1.5.1** Contractor(s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters at site. No claim whatsoever on account of any discrepancy between the sub-surface strata conditions that may be actually encountered at the time of execution of the work and those given in soil report, in-accuracy or interpretation thereof shall be entertained from the Contractor under any circumstances. The ground water table is in variable condition and the information given in the report is only indicative and it may vary from time to time.
- 1.6 Site condition:**
- 1.6.1** The tenderer shall acquaint himself with the site of work and see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost. ***The contractor shall make his own arrangements for obtaining water & electricity connections and make necessary payments directly to the department concerned.***
- 1.7 Precautionary measures:**
- 1.7.1** Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost. The contractor shall take all precautions to prevent his workmen and employees from removing and damaging any Flora (plant/vegetation) from the campus/site.
- 1.7.2** The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to work due to negligence on his part. No hindrances shall be caused to traffic, during the execution of the work. In case of any accident of the labourers/ contractual staff, the entire responsibility will rest on the contractor and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.
- 1.7.3** The contractor, his authorized representative, workmen etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.
- 1.7.4** The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general .The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipment for execution of the work, so as to cause minimum environmental pollution of any kind during construction, to have minimum construction time and minimum inconvenience to road users and to the occupants of the buildings on the adjacent plot and public in general, etc. He shall make good at his own cost and to the entire satisfaction of the Engineer-in-Charge any damage to roads, paths, cross drainage works or public or private property whatsoever caused, due to the execution of the work or by traffic brought thereon, by the Contractor. Further, the Contractor shall take all precautions to prevent any pollution of streams and waterways. All waste or superfluous materials shall be carted away by the Contractor, entirely to the

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satisfaction of the Engineer-in-Charge. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Contractors are advised to visit site and get firsthand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

1.8 General cleanliness of the site and Stacking & Storage of Materials

- 1.8.1 The site of work shall be always kept clean in general strictly adhering to approved job layout and green building parameters. The Contractor shall take all care to prevent any water- logging at site. The waste water shall not be allowed to be collected at site. It may be directly pumped into the public drainage system with prior approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from concerned authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.
- 1.8.2 The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc are to be constructed.
- 1.8.3 For construction works which are likely to generate malba / rubbish, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at his own cost to the notified/specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises
- 1.8.4 The contractor shall construct suitable godowns, yard at the site of work for storing all other materials so as to be safe against damage by sun, rain, damages, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose at his cost.

1.9 Lab Equipment:

The contractor shall provide at his own cost suitable weighing, surveying and levelling and measuring arrangements as may be necessary at site for checking. All such equipment shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account. A site laboratory with the minimum equipment as specified in NIT shall be established, made functional and maintained within 21 days from the award of the work without any extra cost to the department.

1.10 Setting out

- 1.10.1 The contractor shall establish, maintain and assume responsibility for grades, lines, levels and bench marks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions to the Engineer-in-Charge before commencing work. Commencement of work shall be regarded as the contractor's acceptance of such

grades, lines, levels and dimensions and no claim shall be entertained at a later date for any errors found.

- 1.10.2 In order to set the alignment of buildings / foundations and to mark the same on the ground, the agency is to adopt “total station” surveying method. The agency is to engage a well versed and well experienced surveyor in “total station” survey. Nothing extra for this total station survey is payable.

If at any time, any error in the respect of setting out appears during the progress of the work, the contractor shall, at his own expense rectify such error if so required, to the satisfaction of the Engineer-in-Charge.

- a). Though the site levels are indicated in the drawings, the contractor shall ascertain himself and confirm the site levels with respect to GTS bench mark from the concerned authorities. The contractor shall protect and maintain temporary/ permanent benchmarks at the site of work throughout the execution of the work. These bench marks shall be got checked by the Engineer-in-Charge or his authorized representatives. The work at different stages shall be checked with reference to bench marks maintained for the said purpose. Nothing extra shall be payable on this account.
- b). The approval by the Engineer-in-Charge, of the setting out by the contractor, shall not relieve the contractor of any of his responsibilities and obligation to rectify the errors/defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.

- 1.10.3 The contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the contractor at his own cost to the instructions and satisfaction of the Engineer-in-Charge.

- 1.10.4 The Contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the Engineer-in-Charge & proceed further. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc., along with theodolites. Nothing extra shall be payable on this account.

- 1.10.5 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings.

1.11 Temporary Water, Electricity & Telephone Connections:

- 1.11.1 The contractor shall make his own arrangements for water including boring of tube wells etc. if necessary and for Electricity by obtaining electric connections and by providing diesel generators of adequate capacity if required and make necessary payments directly to the State Govt. departments concerned. Necessary approval shall

be taken by the contractor from the ground water department for boring of tube wells. Nothing extra shall be paid on these accounts. Contractor shall get the water tested from laboratory approved by the Engineer-in-charge at regular interval as per the CPWD Specifications 2019. All expenses towards collection of samples, packing, transportation and testing charges etc. shall be borne by the contractor. The contractor shall obtain environmental and pollution clearance for the diesel generators. Nothing extra shall be paid on this account.

- 1.11.2 The Contractor shall arrange electricity at his own cost for testing of the various electrical installations as directed by Engineer-in-Charge and for the consumption by the contractor for executing the work. Also all the water required for testing various electrical installations, fire pumps, wet riser / firefighting equipment, fire sprinklers etc. and also testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.
- 1.11.3 Arrangement of temporary telephone connection, water and electricity required by Contractor, shall be made by him at his own cost and also necessary permissions shall be obtained by him directly from concerned authorities, under intimation to the Department. Also, all initial cost and running charges, and security deposit, if any, in this regard shall be borne by him. The Contractor shall abide by all the rules/ bye laws applicable in this regard and he shall be solely responsible for any penalty on account of violation of any of the rules / byelaws in this regard. Nothing extra shall be payable on this account.
- 1.11.4 The Contractor shall be responsible for maintenance and watch and ward of the complete installation and water / electricity meter and shall also be responsible for any pilferage, theft, damage, penalty etc. in this regard. The Contractor shall indemnify the Department against any claim arising out of pilferage, theft, damage, penalty etc. whatsoever on this account. Security deposit for the work shall be released only after **No Dues Certificates** are obtained from the local Authorities from whom temporary electric/ water / telephone connection have been obtained by the Contractor. Nothing extra shall be payable on this account.
- 1.11.5 The Department shall in no way be responsible for either any delay in getting electric and/or water and/or telephone connections for carrying out the work or not getting connections at all. No claim of delay or any other kind, whatsoever, on this account shall be entertained from the Contractor. Also contingency arrangement of stand-by water & electrical supply shall be made by the Contractor commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of any kind whatsoever shall be entertained on this account from the Contractor. Nothing extra shall be payable on this account.

1.12 Architectural and structural drawings :

- 1.12.1. The work shall be carried out in accordance with the Architectural drawings and Structural drawings, issued by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work, nomenclature of items, specifications etc. and satisfy

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himself that the information available there from is complete and unambiguous. The figures & the written dimensions of the drawing shall supersede the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge for immediate decision before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim, whatsoever shall be entertained on this account. The delay caused on account of non-timely action by the contractor in resolution of the differences whatsoever shall not be considered as valid ground for extension of time unless otherwise accepted by Engineer-In-Charge.

- 1.12.3 The information and site data shown in the drawings and mentioned herein and also elsewhere in the tender documents are being furnished for general information and guidance only. The department shall not bear responsibility for lack of such knowledge and also the consequences thereof. The Engineer-in-charge in no case shall be held responsible for the accuracy thereof or any interpretation/ or conclusions drawn there from by the contractor.

1.13 Scaffolding & Staging :

- 1.13.1 Wherever required for the execution of work, all the scaffolding shall be provided and suitably fixed, by the contractor. The scaffolding shall be provided strictly with steel double scaffolding system, suitably braced for stability, with all the accessories, gangways, etc. with adjustable suitable working platforms to access the areas with ease for working and inspection. Single scaffolding system is strictly prohibited and shall invite necessary action. It shall be designed to take all incidental loads. It should cater to the safety features for workmen. Nothing extra shall be payable on this account. It shall be ensured that no damage is caused to any structure due to the scaffolding.

1.14 Co-ordination with other agencies :

- 1.14.1 The Contractor shall conduct his work so as not to interfere with or hinder the progress of the work being performed by other Contractors or by the Engineer-in-Charge. As far as possible, he shall arrange his work and place, so as not to interfere with the operations of other Contractors or shall arrange his work with that of the others, in an acceptable and coordinated manner and shall perform it in proper sequence.
- 1.14.2 Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- 1.14.3 The Contractor shall cooperate with and provide the facilities to the associate-Contractors and other agencies working at site for smooth execution of the work. The Contractor shall –
- (i) Allow use of scaffolding already erected, toilets, sheds etc.

- (ii) Properly co-ordinate their work with the work of other Contractors.
- (iii) Provide control lines and benchmarks to his associate-Contractors and the other Contractors.
- (iv) Provide electricity and water at mutually agreed rates.
- (v) Provide hoist and crane facilities for lifting material at mutually agreed rates.
- (vi) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
- (vii) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
- (viii) Resolve the disputes with other Contractor amicably and the Engineer-in-Charge shall not be **made intermediary or arbitrator. The department shall not be responsible for the disputes between the subject work contractor and associate contractor / other agencies working at site. No claim shall be allowed by the department.**

1.15 Procurement of materials:

- 1.15.1 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.
- 1.15.2 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.

1.16 Protection of Existing Services & buildings and Materials:

- 1.16.1 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor 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. In case temporary supporting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.
- 1.16.2 In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.
- 1.16.3 All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest discovered on project location during excavation/construction shall be the property of the Government, and shall be dealt with as per provisions of the relevant legislation. The contractor will take reasonable precaution to prevent his workmen or any other persons from removing and damaging any such article or thing. He will, immediately upon discovery thereof and before removal acquaint the Engineer-in-charge of such discovery and carry out the official

instructions of Engineer-in-charge for dealing with the same, till then all work shall be carried out in a way so as not to disturb/ damage such article or thing.

1.16.4 The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the client department. No extra payment shall be made on this account.

1.16.5 The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.

1.17 Rates and other conditions for payment:

The rates quoted by the Contractor are deemed to be inclusive of the following-

1.17.1 Site clearance, setting out work, profile, establishment of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, **barricading**, signage, labour safety, welfare & training measures, preparatory works, working during monsoon, working at all depths, height, lead, lift and location etc. until / unless specified otherwise and any other incidental works required to complete this work. Nothing extra shall be payable on this account. Payment for centering & shuttering, however, if required to be done for floor heights greater than 3.50m shall be admissible at rates arrived in accordance with clause 12 of the agreement if not already specified.

1.17.2 For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do it and nothing extra shall be paid except otherwise provided in the items of schedule of quantities.

1.17.3 Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor. Nothing extra over the schedule shall be paid on this account.

1.17.4 All labour, material, tools and plants and other inputs involved in the execution of the item.

1.17.5 Providing sunk flooring in bath-rooms, kitchen, etc.

1.17.6 Performance test of the entire installation(s) before the work is finally accepted.

1.17.7 Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items.

1.17.8 The rates quoted by the tenderer, shall be inclusive of all taxes including GST and levies applicable in respect of this contract shall be payable by the contractor and Government will not entertain any claim whatsoever in respect of the same.

1.17.9 For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.

1.17.10 The Contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all orders, decrees of statutory bodies, tribunals having any

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

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jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / MC etc. and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. It is clarified that the extra sewerage charges (one time charges for commencement of work) required to be paid to the Municipal Corporation / other statutory bodies shall be paid by the department and need not be considered by the contractor. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. All statutory taxes, levies, charges (including GST, water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and obtain all requisite licenses wherever required and shall pay to such authority all the fees that are required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts. The fee payable to statutory authorities for obtaining the various permanent service connections and Occupancy Certificate for the building shall be borne by the Department.

- 1.17.11 **Royalty** at the prevalent rates including contribution towards Mineral Exploration Research and Innovation Trust (MERIT) @ 2% on Seigniorage fee and District Mineral Foundation (DMF) @ 30% of Royalty / Seigniorage fee, Consideration amount @ 100% of the seigniorage fee shall have to be paid by the contractor or the RMC supplier as per the terms of supply between them (Rates of Seigniorage fee enclosed in the document is for guidance only and no claims shall be entertained on account of this) on all the boulders, stone aggregate, brick aggregate, shingle, coarse or fine sand, earth, gravel, bajri etc. collected by him for the execution of the work, directly to the Revenue Authority or authorized agent of the State Government concerned or Central Government. Further, contractor needs to submit proof of submission of full royalty to the State Government or local authority. Nothing extra shall be payable on this account.
- 1.17.12 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, barricading, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-

Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.

- 1.17.13 The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.
- 1.17.14 The Contractor shall make all necessary arrangements for protecting from rain or likewise extreme weather conditions, the work already executed and for carrying out the further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account. Also, no claims for hindrance shall be entertained on this account.
- 1.17.15 In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained not withstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.
- 1.17.16 No payment shall be made for any damage caused by fire, rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the govt. property and the work for which payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his material, T&P/Machinery brought to the site by him. The contractor shall maintain all the work in good condition at his own cost till the completion of the entire work.
- 1.17.17 In case the same item appears more than once in the schedule of work under the same sub head or among the different sub heads of works, the lowest rate quoted for that item shall be taken for other items also and tender will be evaluated accordingly.
- 1.17.18 The ESI and EPF contribution on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of employer paid by the contractor shall be reimbursed by the Engineer in charge to the contractor on actual basis. The applicable and eligible amount of EPF& ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment which are in order.

1.18 Foreign Exchange:

- 1.18.1 No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items if required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- 1.18.2 The contractors have to quote the corresponding imported items in “Indian Rupees” in the Schedule of Quantities which shall include all incidental charges including freight, taxes including GST, import duties, fluctuations in currency rates. No extra payment will be made over and above the quoted rates.

1.19 Tools & Plants:

- 1.19.1 No tools and plants including any special T&P etc. shall be supplied by the Department and the Contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.

1.20 Computerized MBs:

- 1.20.1 The contractor will submit computerized bill with measurement sheet for the work carried out by him for making payment as per Clause – ‘6’ of the CPWD General Conditions of Contract 2023 for Construction works (with correction slips upto the last date of submission of tender). For casting of RCC members and other hidden items the corrected and duly test checked measurement sheets of reinforcement or that of other hidden items shall be deposited with Engineer in charge or his authorized representative, before casting of RCC or other hidden items. The delay in submission of corrected and duly checked measurement sheet may, therefore, delay casting of RCC or execution of hidden item for which no hindrance shall be recorded.
- 1.20.2 Electronic measurement book is introduced. The contractor shall comply with the same as per the direction of Engineer-in-charge.

1.21 Water Supply & Sanitary Installations & Testing:

- 1.22.1 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to approved manufacturers specifications where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested from approved labs wherever required at his own cost. The contractor shall submit for the approval of the Engineer-in-Charge, the name of the plumbing agency (along with their working experience in recent past) proposed to be engaged by him.
- 1.22.2 The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.

2.0 LABOUR AND SECURITY

- 2.1 In the event of the contractor(s) committing a default or breach of any of the provisions of the Central Public Works Department, Contractor’s Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filing any statement under the provisions of the above Regulations and’ Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the Government a sum not exceeding Rs.500/- for every default, breach or furnishing, making, submitting,

filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs.1000/- per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties.

No payment shall be made for construction of labour housing.

- 2.2 The Contractor shall display all permissions, licenses, registration certificates, other statements etc under various labour laws and other regulations applicable to the works, at his site office.
- 2.3 No site is available for labour huts. The contractor shall have to have his own arrangements for hiring land for setting up labour huts. The contractor will be provided space for watchman huts, site office etc. to a very limited extent inside the campus but the space requirement and location, as assessed by Engineer-in-Charge shall be final and binding.
- 2.4 If as per the rules of the local authority, the huts for labour are not to be erected at the site of work by the contractors, the contractors are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account.
- 2.5 Contractor has to follow the security requirement of the campus and obtain necessary entry passes for the labour and vehicles and follow security checks at entry / exit gates, restriction on movement of vehicle, restricted timings of working etc. The Department however shall assist the contractor in obtaining such passes for movement of vehicles and labour. No claim whatsoever shall be entertained on account of delay in entry of vehicles and labour including restrictions in working hours, if there is any.
- 2.6 The contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. The contractor shall, on demand submit list of his agents, employees and workmen concerned & shall satisfy as to the bonafides of such people.
- 2.7 The contractor & his workmen shall observe all relevant rules regarding security promulgated in which work is to be carried out by the Controlling Administrative Authority of the campus/area (hereinafter referred to as "IIT-Tirupati").
- 2.8 The contractor, his representative, workmen shall be allowed to enter through specified gates & timing as laid down by the controlling authority. They shall be issued an identity card or an individual pass in accordance with the standing rules & regulations & they should possess the same while working. The contractor shall be responsible for the conduct & actions of his workmen, agents/ representatives.
- 2.9 Normally contractor shall be allowed to carry out work between 7 AM to 6 PM. However, he may also be allowed to carry out the work beyond 6 PM & upto 7 AM, if the site conditions / circumstances so demand with prior written permission from the "IIT-Tirupati". However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained.
- 2.10 Normally contractor's material / vehicles etc. shall be allowed to move in / go-out between 7 AM to 7 PM only & no movement of material / vehicles out of site of work

shall be allowed during night hours unless specific permission is obtained from the “IIT-Tirupati”.

- 2.11 In case if a separate entry has been allowed, the contractor has to make all arrangement for making a separate entry gate and barricading of the working area to segregate/separate the same from other areas. All these have to be done by the contractor at his own cost including safeguarding any untoward incident in the restricted area due to separate entry gate and barricading arranged by the contractor. No extra amount on this account shall be payable by the department.
- 2.12 In the event of any restrictions being imposed by the Security agency, CPWD, Traffic 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 such accounts. The loss of time on these accounts, if any, shall have to be made up by augmenting additional resources whatever required. Nothing extra shall be payable on this account.

3.0 OFFICE INFRASTRUCTURE:

- 3.1 The contractor shall make arrangement for Helmets and safety leather shoes (meant of construction work at sites) for all field staff of the department during the entire period of construction for safety reasons. One helmet and two pairs of shoes per staff member (maximum five members) of the departments per year shall be arranged by the contractor.

4.0 DOCUMENTATION

The Contractor shall render all help and assistance in documenting the total sequences of this project by way of photography, slides, audio / video recording & other records etc. Nothing extra shall be payable to Contractor on this account.

5.0 PROGRESS CHART: -

- 5.1 The contractor shall submit a Time and Progress Chart for each mile stone. The Engineer-in-charge may within 10 days thereafter, if required modify, and communicate the program approved to the contractor failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in-charge. The work programme shall include all details of balance drawings and decisions required to complete the contract with specific dates by which these details are required by contractor without causing any delay in execution of the work. The chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-charge and the Contractor within the limitations of time imposed in the Contract documents, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile stones given in Schedule 'F'.
- 5.2 In case of non-submission of construction programme by the contractor the Program approved by the Engineer-in-charge shall be deemed to be final.

- 5.3 The approval by the Engineer-in-charge of such programme shall not relieve the contractor of any of the **obligations** under the contract.
- 5.4 The contractor shall submit the **Time and Progress Chart** and progress report using the **mutually agreed software or in other format decided by Engineer-in-charge** for the work done during previous month to the **Engineer-in-charge on or before 5th day of each month failing which a recovery Rs. 5,000/- shall be made on per week or part basis in case of delay in submission of the monthly progress report.**
- 5.5 The program chart should include the following: -
- Descriptive note explaining sequence of various activities.
 - BAR CHARTS prepared in mutually agreed software or in other format decided by Engineer-in-charge which will indicate resources in financial terms, manpower and specialized equipment for every important stage.
 - Program for procurement of materials by the contractor.
 - Program for arranging and deployment of manpower both skilled and unskilled so as to achieve targeted progress.
 - Programme for achieving milestones.
- 5.6 The submission for approval by the Engineer-in-charge of such programme or such particulars shall not relieve the contractor of any of the duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-charge to take action against the contractor as per terms and conditions of the agreement.

6.0 PROGRESS AND MONITORING OF WORK:

- 6.1 The progress report shall contain the following, apart from whatever else may be required as specified:-
- Construction schedule of the various components of the work through a bar chart for the next three months (or as may be specified), showing the micro milestones, targeted tasks and up to date progress. At least 10 digital photographs showing all the parts of construction site along with at least 5 minutes video of executions of different items in soft copy has to be submitted in every monthly progress report.
 - Progress chart of the various components of the work that are planned and achieved, for the month as well as cumulative up to the month, with reason for deviations, if any in a tabular format.
 - Plant and machinery statement, indicating those deployed in the work.
 - Man-power statement, indicating individually the names of all the staff deployed on the work, along with their designations. Number of skilled workers and unskilled workers deployed on the work
 - Financial statement, indicating the broad details of all the running account payment received up to date, such as gross value of work done, advances taken, recoveries effected, amount withheld, net payments details of Cheque payment received, extra /deviation items if any, etc.

- 6.2 For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.
- 6.3 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-charge.
- 6.4 The Contractor shall do proper sequencing of the various activities by suitably staggering the activities within various pockets in the plot so as to achieve early completion. The agency may deploy adequate equipment, machinery and labour as required for the completion of the entire work within the stipulated period specified. Also ancillary facilities shall be provided commensurate with requirement to complete the entire work within the stipulated period. Nothing extra shall be payable on this account. Adequate number/sets of equipment in working condition, along with adequate stand-by arrangements, shall be deployed during entire construction period. It shall be ensured by the Contractor that all the equipment, Tools & Plants, machineries etc. provided by him are maintained in proper working conditions at all times during the progress of the work and till the completion of the work. Further, all the constructional tools, plants, equipment and machineries provided by the Contractor, on site of work or his work shop for this work, shall be exclusively intended for use in the construction of this work and they shall not be shifted / removed from site without the permission of the Engineer-in-Charge.
- 6.5 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

7.0 PROJECT REVIEW MEETINGS:

The contractor, immediately on award of work shall submit details of his keypersonnel to be engaged for the work at site. In addition, he shall furnish the Engineer-in-charge detailed organization involved with the work.

The contractor shall present the programme and status at various review meetings as required.

8.0 DEFECT LIABILITY PERIOD (REFUND OF SECURITY DEPOSIT):

- 8.1 The defect liability / maintenance period shall be 12 months after the date of completion of work for this contract agreement. The Security Deposit shall be released after the defect liability period of 12 months after completion of work and for this, the contractor shall have to produce a certificate stating that no defects are pending for rectification from the Engineer-in-charge, but subject to other provisions specified elsewhere in the contract agreement.

9.0 SAFETY MEASURES

9.1 The issue of construction safety & standards has gained utmost importance in recent times. This subject is to be dealt with in an integrated manner with an approach to developing and establishing a safety culture at work sites. Broadly, its components are:

- (i) Creating awareness.
- (ii) Education.
- (iii) Training.
- (iv) Implementation.
- (v) Enforcement measures.

All workers of contractor and associate agencies, invariably and at all the times, must follow all safety norms, adopt safe construction practices and use all required safety gadgets in their working throughout the project duration.

9.2 The contractor shall issue **Photo Identity Cards** with unique numbers containing salient information of workers for the labour & his staff.

9.3 The Contractor shall monitor and achieve the objectives of construction safety continuously, progressively and through affirmative action, and shall oversee implementation of safety program over the entire construction period.

9.4 Warning / Caution Boards

All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account.

9.5 Sign Boards

9.5.1 The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, client / owner, architects, structural consultants, Department etc. besides providing space for names of other Contractors, Associate contractors and specialized agencies. Nothing extra shall be payable on this account.

9.5.2 A display board shall be kept at site which would list the names of workers, teams and agencies following safety program in the best manner. This would be updated weekly.

9.5.3 Necessary protective and safety equipment shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and used at site.

9.5.4 No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer -in- Charge in this regard. Also all precautions and safety measures shall be taken by the Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

10.0 INSPECTION OF WORKS:

- 10.1 In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the Chief Engineer cum Executive Director, Tirupati Project Zone, CPWD, Tirupati and other senior officers of CPWD and client in addition of the Engineer-in-charge, his authorized representatives, Authorities and Team of Third-Party Quality Assurance engaged for the work. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.
- 10.2 The committee/consultant appointed by CPWD/IITT, shall be inspecting the works to ensure that the works in general being executed according to the design, drawings and specifications laid down in the contract. Their observations shall be communicated by CPWD engineering staff and compliance is to be reported to CPWD. The committee/consultant appointed by CPWD/IITT shall certify on completion of particular WORK that it has been constructed according to the approved drawings design and specifications.
- 10.3 Senior Officers of CPWD, Dignitaries from Central Ministry / Department, State Government and Client Department Authorities shall be inspecting the on-going work at site at any time with or without prior intimation. The contractor shall, therefore, keep updated the following requirements and detailing:-
- 10.3.1 Display Board showing detail of work, weekly progress achieved with respect to targets, reason of shortfall, status of manpower, wages being paid for different categories of workers.
- 10.3.2 Entrance and area surrounding to be kept cleaned.
- 10.3.3 Display layout plan, key plan and other relevant drawings.
- 10.3.4 Upto date displays of programme chart (Bar charts).
- 10.3.5 Keep details of quantities executed, balance quantities, deviations, possible Extra items etc.
- 10.3.6 Keep plastic / cloth mounted one set of drawings.
- 10.3.7 Set of Helmets and safety shoes for safety.

11.0 INSURANCE POLICIES:

Before commencing the execution of work, the Contractor shall, without in any way limiting his obligations and liabilities, insure at his own cost and expense against any damage or loss or injury, which may be caused to any person or property, at site of

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

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work. The Contractor shall obtain and submit to the Engineer-in-Charge proper Contractor All Risk Insurance Policy for an amount equivalent to the contract amount for this work, with Engineer-in-Charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer-in-Charge and the Contractor (who shall be second beneficiary). Also, he shall indemnify the Department from any liability during the execution of the work. Further, he shall obtain and submit to the Engineer-in-Charge, **a third party insurance policy for maximum Rs. 20 lakh for each accident or any other incident or act of God or health hazard or Biological attack, with the Engineer-in-Charge as the first beneficiary.** The insurance shall be obtained in joint names of Engineer-in-Charge and the Contractor (who shall be second beneficiary). The Contractor shall, from time to time, provide documentary evidence as regards payment of premium for all the Insurance Policies for keeping them valid till the completion of the work. The Contractor shall ensure that Insurance Policies are also taken for the workers of his Sub-Contractors / specialized agencies also. The contractor including subcontractors shall provide comprehensive group insurance cover for all the workers and their supervisory staff deployed at site. The details of insurance cover to be provided shall be submitted by the contractor / associate agencies within 4 (Four) Months of date of start. In case of a default, appropriate policy shall be got done by the safety monitoring committee and double the fee of the policy shall be recovered from the next bill of the contractor. Without prejudice to any of its obligations and responsibilities specified above, the Contractor shall within 15 days from the date of letter of acceptance of the tender and thereafter at the end of each quarter submit a report to the Department giving details of the Insurance Policies along with Certificate of these insurance policies being valid, along with documentary evidences as required by the Engineer-in-Charge. No work shall be commenced by the Contractor unless he obtains the Insurance Policies as mentioned above. Also, no payment shall be made to the Contractor on expiry of insurance policies unless renewed by the Contractor. Nothing extra shall be payable on this account. No claim of hindrance (or any other claim) shall be entertained from the contractor on these accounts.

12.0. APPLICABLE PERMITS:

- 12.1 The contractor(s) shall give to the Municipality, police and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fee, taxes including GST and charges which may be levied on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain lights either for illumination or for cautioning the public at night.
- 12.2 The contractor shall ensure that applicable permits mandated by the local bodies and in case warranted for this work are obtained as required under the Applicable Laws.

13.0 LOCAL BYE-LAWS:

- 13.1 The building 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.

- 13.2 Some restrictions may be imposed by the local police etc. on the working time and for movement of labour, materials etc. the contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on this account.
- 13.3 The contractor shall not stack building material/ malba on the road or on the land owned by any other authority, as the case may be. In case, the Contractor is found stacking the building material/ malba as stated above, he shall be liable to pay the stacking charges as may be levied by local body or authority and also to face penal action as per the rules, regulations and bye-laws of the said body or authority. The Engineer-in-Charge shall be at liberty to recover the sums due but not paid to the concerned authorities on the above counts from any sums due to the contractor including amount of the Security Deposit or Retention Money in respect of this contract or any other contract.

14.0 FINAL TESTING OF THE INSTALLATION:

The Contractor shall demonstrate trouble free functioning of all the Civil and E & M installations and services. The Engineer-in-Charge or his authorized representatives shall carry out final inspection of the various Civil and E & M services and installations. Any defect(s) noticed during demonstration shall be rectified by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.

15.0 De-watering

- 15.1 De-watering required, if any, shall be done conforming to BIS Code IS: 9759 (guide lines for de-watering during construction) and / or as per the specifications approved by the Engineer-in-Charge. Design of an appropriate and suitable dewatering system shall be the Contractor's responsibility. Such scheme shall be modified / augmented as the work proceeds based on fresh information discovered during the progress of work, at no extra cost. At all times during the construction work, efficient drainage of the site shall be carried out by the Contractor and especially during the laying of plain cement concrete, taking levels etc. The Contractor shall also ensure that there is no danger to the nearby properties and installations on account of such lowering of water table. If needed, suitable precautionary measures shall be taken by the Contractor. Also the scheme of dewatering adopted shall have adequate built in arrangement to serve as stand-bye to attend to repair of pumps etc. and disruption of power / fuel supply. Nothing extra shall be payable for all the operations described in this para.
- 15.2 In trenches where surface water is likely to get into cut / trench during monsoons, a ring bund of puddle clay or by any other means shall be formed outside, to the required height, and maintained by the Contractor. Also, suitable steps shall be taken by the Contractor to prevent back flow of pumped water into the trench. Nothing extra shall be payable on this account.
- a) For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do the same at his own cost and nothing extra shall be paid except otherwise provided in the items of Schedule of Quantities.
- b) The Contractor shall make all necessary arrangements for protecting from rains, fog or likewise extreme weather conditions, the work already executed and for carrying out further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account and also no claims for hindrance shall be entertained on this account.

- c) In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.
- d) The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) from the project area.

ADDITIONAL CONDITIONS (CIVIL COMPONENT)

1.1 QUALITY ASSURANCE/TESTING OF MATERIALS: -

1.1.1 Testing charges to be borne by Contractor.

Samples of materials required for testing shall be provided free of charge by the contractor. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimension as may be necessary. All expenditure to be incurred for testing of samples i.e. packing, sealing, transportation, loading, unloading etc., including testing charges shall be borne by the Contractor.

1.1.2 The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the Engineer-in-Charge, at such time and to such places, as directed by the Engineer-in-Charge. Nothing extra shall be payable for the above.

1.1.3 The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor. The Contractor or his authorized representative shall remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.

1.1.4 Maintenance of Register of Tests:-

- (i) All the registers of tests carried out at a Construction Site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-Charge.
- (ii) All Samples of materials including Cement Concrete Cubes shall be taken jointly with Contractor by representative of the Engineer in Charge. All the 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 test 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 representative of the Engineer in Charge.
- (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 Engineer in Charge or his representative.
- (v) Contractor shall be responsible for safe custody of all the test registers.

1.1.5 Extensive testing of the materials used for construction is a pre-requisite for attaining high quality of the work. This shall also require specialized tests, physical, chemical, ultrasonic, x-ray and various other types of tests which cannot possibly be carried out in a site laboratory. These tests also require specialized personnel who regularly deal in such testing. Therefore, the need arises for carrying out the tests in outside

laboratories. These laboratories may be in the Govt. sector, Semi Govt. or Private sector. All Govt. Institutes, Indian Institute of Technology, National Institute of Technology, Central and State funded laboratories stands approved. No approval is required for testing in these laboratories/institutes. However, the outside private laboratories shall be approved in the following manner:-

- i. The Special Director General, Chennai, CPWD, Chennai will approve the private lab irrespective of distance for tests accredited by NABL or any other similarly placed accrediting government body which operates in accordance with ISO/IEC 17011 and accredit labs as per ISO/IEC 17025.
- ii. A lab will have to submit details of space available, equipment, staff (Technical and Non-Technical), accreditation and approval from various department/institutes. Lab must be NABL approved.
- iii. Initial approval of lab should for one year and can be revalidated for further one year and so on.
- iv. Every lab will be audited for maintenance and calibration of equipment and employment of staff prior to approval/revalidation.

However, testing of material in any Govt., Lab / Public Undertaking Lab / IIT or NIT Lab / Govt. Engineering College may be allowed by Executive Engineer without prior approval of any higher officers provided these labs have all necessary facility to carry out the required tests.

- 1.1.6 In case there is any discrepancy in frequency of testing as given in list of mandatory tests and that in individual sub-heads of work as per CPWD Specifications higher of the two frequencies of testing shall be followed and nothing extra shall be payable on this account.
- 1.1.7 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- 1.1.8 In addition to the supervision of work by CPWD engineers, the Architects deployed by the Client/CPWD, CPWD Quality Control/ Assurance Team and Third party Quality Control/ Assurance Team shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by CPWD engineers to the contractor. Upon receipt of instructions from Engineer in Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction. Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper

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

1.2 SAMPLE OF MATERIALS:-

- 1.2.1 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per **List of Approved Makes given in the tender document** for approval of Engineer-in-Charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.
- 1.2.2 The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contractor for non-availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge.
- 1.2.3 To avoid delay, contractor should submit samples / as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-in-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost. Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.
- 1.2.4 BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.

BIS marked items (except cement & steel for which separate provisions have been made) required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-in-Charge. The frequency of

such tests (except the mandatory test) shall be 5% of the frequency as specified in BIS. For mandatory test, frequency shall be as specified in the CPWD Specifications.

- 1.2.5 For certain items, if frequency of tests is neither mentioned in the CPWD Specifications nor BIS, then tests shall be carried out as per directions of Engineer-in-Charge.

2.0 CEMENT & STEEL REINFORCEMENT

- 2.1 Contractor shall procure Cement and Steel and produce manufacturers' test certificate and delivery challan / invoice for each lot of Cement & Steel Reinforcement procured at site.

2.2 CEMENT:-

- 2.2.1 The contractor shall procure 43 grade ordinary Portland Cement (OPC) conforming to IS: 269 / Portland Pozzolona Cement (PPC) conforming to IS: 1489 (Part-1) as required in the work as per specifications/particular specifications of buildings from reputed manufacturers of cement as mentioned in **"List showing preferred brands / Manufacturers / Makes"** The cement of approved make as aforesaid in 50 kg. bags bearing manufacturer's name and ISI marking, along with manufacturers' test certificate for each lot shall be procured by the contractor. Portland Pozzolona Cement is to be used for RCC works only subject to fulfillment of conditions of circular No. CDO/SE(RR)/Fly ash (MAN) 02 dated 09.04.09. However, if the contractor uses higher grade of cement or uses OPC only nothing extra shall be paid. The use of PPC shall be regulated as per the following conditions stipulated in the circular dated 09.04.2009:-

- a). IS:456-2000 Code of Practice for Plain and Reinforced Concrete (as amended upto date) shall be followed in regard to Concrete Mix Portion and its production as under:
 - i). The concrete mix design shall be done as "Design Mix Concrete" as prescribed in clause-9 of IS 456 mentioned above.
 - ii). Concrete shall be manufactured in accordance with clause 10 of above mentioned IS:456 covering quality assurance measures both technical and organizational, which shall also necessarily require a qualified Concrete Technologist to be available during manufacture of concrete for certification of quality of concrete.
- b). Minimum M-30 grade of concrete shall be used in all structural elements of RCC, both in load bearing and framed structure.
- c). The mechanical properties such as modulus of elasticity, tensile strength, creep and shrinkage of fly ash mixed concrete or concrete using fly ash blended cements (PPCs) are not likely to be significantly different and their values are to be taken same as those used for concrete made with OPC.
- d). To control higher rate of carbonation in early ages of concrete both in fly ash admixed as well as PPC based concrete, water/binder ratio shall be kept as low as possible, which shall be closely monitored during concrete manufacture.

If necessitated due to low water / binder ratio, required workability shall be achieved by use of Chloride free chemical admixtures conforming to IS : 9103. The compatibility of chemical admixtures and super plasticizers with each set of OPC, fly ash and / or PPC received from different sources shall be ensured by trials.

- e). In environment subjected to aggressive chloride or sulphate attack in particular, use of fly ash admixed or PPC based concrete is recommended. In case, where structural concrete is exposed to excessive magnesium sulphate, fly ash substitution/content shall be limited to 18% by weight. Special type of cement with low C₃A content may also be alternatively used. Durability criteria like minimum binder content and maximum water/binder ratio also need to be given due consideration in such environment.
 - f). Wet curing period shall be enhanced to a minimum of 10 days or its equivalent. In hot & arid regions, the minimum curing period shall be 14 days or its equivalent.
 - g). Subject to General Guidelines detailed out as above, PPC manufactured conforming to IS:1489 (Part-I) shall be treated at par with OPC for manufacture of Design Mix Concrete for structural use in RCC.
 - h). Till the time, BIS makes it mandatory to print the %age of fly ash on each bag of cement, the certificate from the PPC manufacturer indicating the same shall be insisted upon before allowing use of such cements in works.
 - i). While using PPC for structural concrete work, no further admixing of fly ash shall be permitted
- 2.2.2 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. The cement for such testing purpose shall be supplied by the contractor free of charge. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge or his authorized representative to do so. The cost of tests shall be borne by the contractor.
- 2.2.3 Cement shall be brought at site in bulk supply or as decided by the Engineer-in-Charge.
- 2.2.4 OPC & PPC bags shall be stored in separate godowns. Separate godowns for tested cement and fresh cement (under testing) to be constructed by the contractor at his own cost as per sketches given in C.P.W.D Specifications having weather-proof roofs and walls. The size of the cement godown is indicated in the sketches for guidance. The actual size and number of godowns shall be as per site requirements and nothing extra shall be paid for the same. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-Charge or his authorized representative of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed proforma and signed daily by the contractor or his authorized agent and Engineer-in-Charge or his authorized representative in token of its correctness. The day to day receipt and issue accounts of different grade/brand of cement shall be maintained

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separately in the standard proforma by the contractor or his authorized representative which shall be duly signed by the authorized representative of the Engineer-in-Charge before issue to the work on day to day basis.

The contractor shall be responsible for the watch and ward and safety of the cement godowns. The contractor shall facilitate the inspection of the cement godowns by the Engineer-in-Charge at any time.

Pages of the register should be machine numbered. The cement godown and the register are required to be checked by the AE/EE in-charge of the work as mentioned below:-

- a) At least weekly or fortnightly, respectively in case of works at the he headquarters of AE/EE and.
- b) Whenever they visit the site of work in case of works located outside the Sub-Divisional/Divisional Head Quarters.
- c) In the case of large concentrated projects like major bridges etc., the EE should check the cement register at least fortnightly

2.2.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause-38 of the contract and shall be governed by the conditions laid therein.

2.2.6 If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorized variation, nothing extra shall be payable to the contractor on this account.

For non-scheduled items, the decision of the Superintending Engineer regarding theoretical quantity of the cement, which should have been actually used, shall be final and binding on the contractor.

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

2.2.8 Damaged cement shall be removed from site immediately by the contractor on receipt of notice in writing from the Engineer-in-charge. If he does not do so within three days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.

2.2.9 In case the contractor brings surplus quantity of cement the same shall be removed from the site after completion of work by the contractor at his own cost after approval of the Engineer-in-Charge.

2.2.10 Cement, which is not used within 90 days from its date of manufacture, shall be retested at approved laboratory. Until the results of such tests are found satisfactory, it shall not be used on the work.

2.2.11 **Compressive Strength of Cement**

The average compressive strength of at least three mortar cubes (area of face 50 cm²) composed of one part of cement, three parts of standard sand (conforming to IS 650:1996) by mass and P/4+3.0 percent (of combined mass of cement plus sand) water, and prepared, stored and tested in the manner described in IS 4031 (Part 6): 1988, shall be as follows:

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- a) 72±1 hour not less than 23 MPa
- b) 168 ±2 hours not less than 33 MPa
- c) 672±4 hours not less than 43 MPa

NOTE: P is the percentage of water required to produce a paste of standard consistency (see as below)

2.2.12 Consistency of Standard Paste:-

The quantity of water required to produce a paste of standard consistency, to be used for the determination of the water content mortar for the compressive strength tests and for the determination of soundness and setting time, shall be obtained by the method described in IS 4031 (part 4) : 1988.

2.3 STEEL REINFORCEMENT:

- 2.3.1 (a) The Contractor shall procure IS marked TMT bars of various grades from the approved steel manufacturers as per list of approved makes forming part of this document or their authorized dealers having valid BIS license for IS: 1786-2008 and further confirming to the OM No. DG/MAN/382, dated 06.02.2019.

The procured steel should have following qualities:

- i. Excellent ductility, bend ability and elongation of finished product due to possible refining technology.
 - ii. Consumption of steel should be accurate as per design
 - iii. Steel should have no brittleness problem in finished product.
 - iv. Steel should carry the quality of corrosion and earthquake resistance.
 - v. Quality steel with achievement of proper level of sulphur and phosphorus as per IS: 1786-2008.
- 2.3.2 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.
- 2.3.3 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 on written orders from the Engineer-in-charge to do so. Else the department shall remove it and recover double the cost of removal from the contractor.
- 2.3.4 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-charge.
- 2.3.5 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.
- 2.3.6 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	For consignment
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	100 tonnes	above 100 tonnes
Under 10mm dia bars	One sample for each 25 tonnes or par thereof.	One sample for each 40 tonnes or part thereof.
10mm to 16mm dia bars	One sample for each 35 tonnes or part thereof.	One sample for each 45 tonnes or part thereof.
Over 16mm dia bars	One sample for each 45 tonnes or part thereof.	One sample for each 50tonnes or part thereof.

- 2.3.7 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.
- 2.3.8 The actual issue and consumption of steel on work shall be regulated and proper accounts shall be 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 of excess consumption, no adjustment needs to be made.
- 2.3.9 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 2.3.10 The contractor shall submit original vouchers from the manufacturer for the total quantity of steel supplied under each consignment to be incorporated in the work. All consignment received at the work site shall be inspected by the Site staff along with the relevant documents before acceptance. The contractor shall obtain Original Vouchers and Test Certificates and furnish the same to the Engineer-in-Charge in respect of all the lots of steel brought by him from approved supplier to the site of work. The original vouchers and test certificates shall be defaced by the Site staff and kept on record in the site office.
- 2.3.11 Reinforcement including authorized spacer bars and laps shall be measured in length of different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
- 2.3.12 The standard sectional weights referred to as in Table 5.4 in para 5.3.4 in CPWD Specifications will be considered for conversion of length of various sizes of M.S. Bars, Steel Bars and T.M.T. bars into Standard Weight.
- 2.3.13 Records of actual Sectional weights shall also be kept dia-wise and lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight. However, for the stipulated issue of steel reinforcement up to and including 10mm diameter bars, the actual weight of steel issued shall be modified to consider the variation between the actual and the standard coefficients and the contractors' accounts will be debited by the cost of modified quantity.
- 2.3.14 (a) If the Derived Weight as in sub-para (2.3.13) above is less than the Standard Weight as in Sub-para (2.3.12) above then the Derived Actual Weight shall be taken for

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payment provided, if it is within the following tolerances specified in IS1786-2008, otherwise whole lot will be rejected.

Tolerances on Nominal Mass

Sl. No	Nominal Size in mm	Tolerance on Nominal mass Percent		
		Batch	Individual Sample *	Individual Sample for coil **
a)	Upto and including 10	± 7	-8	± 8
b)	Over 10 upto and Including 16	± 5	-6	± 6
c)	Over 16	± 3	-4	± 4

* For individual sample plus tolerance is not specified.

**For coils batch tolerance is not specified.

- b) If the Derived Actual Weight is found more than the Standard Weight, the Standard Weight as per in sub-para (2.3.12) above shall be taken for payment. In such case nothing extra shall be paid for the difference between the Derived Actual Weight and the Standard Weight.

2.4 SAFETY IN CONSTRUCTION

- 2.4.1 The contractor shall employ only such methods of construction, tools and plants as are appropriate.
- 2.4.2 The contractor shall take all precautions and measures to ensure safety of works and work man and shall be fully responsible for the same.
- 2.4.3 Safety pertaining to construction such as centering & shuttering, scaffolds, ladders, working platforms, gangway etc. shall be governed by CPWD safety code, relevantsafety codes and the directions of Engineer in charge.
- 2.4.4 All the staging to be either of tubular steel structure with adequate bracings asapproved or made of built up structural sections made from rolled structural steel sections.
- 2.4.5 Form work shall be properly designed for self-weight, weight of reinforcement, weightof fresh concrete and in addition the various live loads likely to be imposed during construction process.
- 2.4.6 The form work shall be designed & constructed so as to remain sufficiently rigid during placing & compaction of concrete & shall be such as to prevent loss of slurryfromthe concrete.
- 2.4.7 The vertical supports shall be adequately braced or otherwise secured in position that these do not fall when the load gets released or the supports are accidentally hit.
- 2.4.8 A thorough inspection of tubular steel centering is necessary before its erection and members showing evidence of excessive rusting, kinks, dents or damaged weldsshall be discarded. Buckled or broken members shall be replaced. Care shall also be taken that locking devices are in good working order and that coupling pins are effectively aligned to frames. Tubes should have end to end joints in adjacent tubes staggered. Sleeve couplers should be used in preference to joint pins for axial connections.

- 2.4.9 Inclined forms which give rise to very high horizontal forces should be taken care of by trussing and diagonal bracing
- 2.4.10 Vertical members should be placed centrally under the members to be supported and over the member supporting them with no eccentricity exceeding 25mm.
- 2.4.11 The centering frames shall be tied together with sufficient braces to make a rigid and solid unit. It shall be ensured that struts and diagonal braces are in proper position and are secured so that frames develop full load carrying capacity. As erection progresses, all connecting devices shall be in place and shall be fastened for full stability of joints and units.
- 2.4.12 Wedges under the supports shall be set on firm soil / PCC which assures adequate stability for all props. Care shall be taken not to disturb the soil under the supports. Adequate drainage shall be provided to drain away the water coming due to rains, easing of forms or during the curing of the concrete to avoid softening of the supporting soil strata.
- 2.4.13 During pouring of the concrete the centering shall be constantly inspected and strengthened, if required wedges below the vertical supports tightened and adjustment screws properly adjusted as necessary.
- 2.4.14 Only workmen actually engaged in the form work shall be allowed in the area during operations. Those engaged in removing the form work shall wear helmets, gloves and heavy soled shoes and approved safety belts etc.
- 2.4.15 The safety code as laid down in respective clauses of Agreement shall be strictly followed.

3 ENGAGING SPECIALISED AGENCIES FOR WORKS: -

- 3.1 The Contractor shall engage specialized agencies having adequate technical capability and experience of having executed at least one work of similar items for executing the following items of the work and/or any other items of work where specialized firm is required to be engaged as per contract conditions.

(i) Water proofing works

This is in addition to the special conditions for sports related work

- 3.2 The Specialized agency for the work shall be got approved from the Engineer-in-Charge well before actual commencement of the item of work. The contractor shall submit the list of specialized agencies proposed to be engaged by him along with their technical capability and necessary performance certificates, within 30 days of the stipulated date of start to substantiate technical capability and experience of the agency for prior approval of the Engineer-in-Charge.
- 3.3 It shall be the responsibility of main contractor to sort out any dispute / litigation with the Specialized Agencies without any time & cost overrun to the Department. The main contractor shall be solely responsible for settling any dispute / litigation arising out of his agreement with the Specialized Agencies. The contractor shall ensure that the work shall not suffer on account of litigation/ dispute between him and the specialized agencies / sub-contractor(s). No claim of hindrance in the work shall be entertained from the Contractor on this account. No extension of time shall be granted and no

claim what so ever, of any kind, shall be entertained from the Contractor on account of delay attributable to the selection/rejection of the Specialized Agencies.

SPECIAL CONDITIONS FOR GREEN BUILDING

The building is proposed to be designed for **GRIHA (Green Rating for Integrated Habitat Assessment)** 4 star rating system. The contractor is required to execute the work in a befitting manner to obtain the targeted **GRIHA rating**.

Special conditions for GRIHA rating

The contractor shall prepare scheme for the approval of Engineer -in-charge for obtaining GRIHA rating in the criteria relevant to the execution of work

The contractor shall plan and execute the work in a manner to preserve and protect the landscape during construction and shall arrange the materials/equipment and follow the procedure as per GRIHA rating as applicable.

All the mandatory criteria of GRIHA and additional conditions for Green Building practices are to be necessarily followed.

The contractor shall comply with NBC norms on construction safety, health and sanitation as per GRIHA rating system.

The construction activity shall be done in a befitting manner and the contractor shall adopt measures to prevent air pollution at site in compliance with criterion 9 of GRIHA rating as applicable.

The contractor shall comply with all the instructions and schemes for execution of Green building.

Nothing shall be paid extra for all these conditions except for the items existing in the schedule of quantities. For such items work done shall be paid on the basis of the agreement rates.

Pre-construction Stage

1. Construction Vehicles, Equipment and Machinery
 - (i) All vehicles, equipment and machinery to be procured for construction shall conform to the relevant Bureau of India Standard (BIS) norms.
 - (ii) Emission from the vehicles must conform to environmental norms.
 - (iii) Dust produced from the vehicular movement and other site activities is to be mitigated by sprinkling of water.
 - (iv) Noise limits for construction equipments shall not exceed 75 dB(A), measured at one meter from the edge of the equipment in free area, as specified in the Environment Protection Act, 1986, schedule VI part E, as amended on 9th May, 1993. The maximum noise levels near the construction site should be limited to 65 dB (A) Leq (5 min) in project area.

Construction Stage

Construction Waste Disposal

- (i) The pre-identified dump locations will be a part of solid waste management plan to be prepared by the Contractor in consultation with Engineer -in-charge.
- (ii) Contractor shall get approved the location of disposal site prior to commencement of the excavation on any section of the project location.
- (iii) Contractor shall ensure that any spoils of material / construction waste will not be disposed off in any municipality solid waste collection bins.

Procurement of Construction Materials

- (i) All vehicles delivering construction materials to the site shall be covered to avoid spillage of materials and maintain cleanliness of the roads.
- (ii) Wheel Tyres of all vehicles used by the contractor, or any of his sub-contractor or materials suppliers shall be cleaned and washed clear of all dust/mud before leaving the project premises. This shall be done by routing the vehicles through tyre washing tracks.
- (iii) Contractor shall arrange for regular water sprinkling at least twice a day (i.e. morning and evening) for dust suppression of the construction sites and unpaved roads used by his construction vehicles.

Water Pollution

- (i) The Contractor shall take all precautionary measures to prevent the wastewater during construction to accumulate anywhere.
- (ii) The wastewater arising from the project is to be disposed off in the manner that is acceptable to the **CPCB**.

Air and Noise Pollution

Contractor shall use dust screens and sprinkle water around the construction site to arrest spreading of dust in the air and surrounding areas.

- (i) Contractor shall ensure that all vehicles, equipment and machinery used for construction are regularly maintained and confirm that emission levels comply with environmental emission standards/norms.
- (ii) For controlling the noise from Vehicles, Plants and Equipments, the Contractor shall confirm the following:
 - (a) All vehicles and equipment used in construction will be fitted with exhaust silencers.
 - (b) Servicing of all construction vehicles and machinery will be done regularly and during routine servicing operations, the effectiveness of exhaust silencers will be checked and if found defective will be replaced.
 - (c) Noise emission from compactors(rollers) front loaders, concrete mixers, cranes(movable), vibrators and saws should be less than 75 dB(A).
 - (d) As per the standards/guidelines for control of Noise Pollution from Stationary Diesel Generator (DG) sets, noise emission in dB(A) from DG Sets (2-1010 KVA) should be less than $94 + 10 \log_{10} (KVA)$. The standards also suggest construction of acoustic enclosure around the DG Set and provision of proper exhaust muffler with insertion loss of minimum 25 dB(A) each as mandatory.

Personal Safety Measures for Labour

Contractor shall provide the following items for safety of workers employed by contractor and associate agencies:

- (i) Protective footwear/ helmet and gloves to all workers employed for the work on mixing, cement, lime mortars, concrete etc. and openings in water pipeline/sewer line.
- (ii) Welder's protective eye-shields to workers who are engaged in welding works.

- (iii) Safety helmet and Safety harness/ belt Provide adequate sanitation/safety facilities for construction workers to ensure the health and safety of the workers during construction, with effective provisions for the basic facilities such as sanitation, drinking water and safety equipments or machinery.
- (iv) All the workers should be wearing helmet and shoes all the time on site.
- (v) Masks and gloves should be worn whenever and wherever required.
- (vi) Adequate drinking water facility should be provided at site, adequate number of decentralized latrines and urinals to be provided for construction workers.
- (vii) Full time workers (if any with the approval of Engineer-in-Charge) residing on site should be provided with clean and adequate temporary hutment.
- (viii) First aid facility should also be provided.
- (ix) Overhead lifting of heavy materials should be avoided. Barrow wheel and hand-lift boxes should be used to transport materials onsite.
- (x) Tobacco and cigarette smoking should be prohibited onsite.
- (xi) All dangerous parts of machinery are well guarded and all precautions for working on machinery are taken.
- (xii) Maintain hoists and lifts, lifting machines, chains, ropes and other lifting tackles in good condition. Provide safety net of adequate strength to arrest falling material down below.
- (xiii) Use of durable and reusable formwork systems to replace timber formwork and ensure that formwork where used is properly maintained.
- (xiv) Ensure that walking surfaces or boards at height are of sound construction and are provided with safety rails and belts. Provide protective equipments such as helmets.
- (xv) Provide measure to prevent fire. Fire extinguisher and buckets of sand to be provided in fire-prone area and elsewhere.
- (xvi) Provide sufficient and suitable light for working during night.
- (xvii) Ensure that measures to protect workers from materials of construction, transportation, storage and other dangers and health hazards are taken.
- (xviii) Ensure that the construction firm/division/company have sound safety policies.
- (xix) Comply with the safety procedure, norms and guidelines (as applicable) as outlined in National Building Construction Standards (NBCS) 2026.
- (xx) Adopt additional best practices and prescribed norms as in **National Building Construction Standards (NBCS) 2026.**

Identify roads on-site that would be used for vehicular traffic. Update vehicular roads (if these are unpaved) by increasing the surface strength by improving particle size, shape and mineral type that make up the surface base. Add surface gravel to reduce source of dust emission. Limit amount of fine particles (smaller than 0.075mm) to 10 - 20%. Limit vehicular speed on site 10km/h. Nothing extra will be payable for this.

All material storage should be adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust/particulate emissions.

Spills of dirt or dusty materials shall be cleaned up promptly so the spilled material does not become a source of fugitive dust and also to prevent of seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean - up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained/cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas.

Ensure that water spraying is carried out by wetting the surface by spraying water on:

- (i) Any dusty material.
- (ii) Areas where demolition work is carried out.
- (iii) Any unpaved main-haul road and.
- (iv) Areas where excavation or earth moving activities are to be carried out.

The contractor shall ensure the following:

- (i) Cover and enclose the site by providing dust screen, sheeting or netting to scaffold along the perimeter of a building.
- (ii) Covering stockpiles of dusty material with impervious sheeting.
- (iii) Covering dusty load on vehicles by impervious sheeting before they leave the site.
- (iv) Transferring, handling/storing dry loose materials like bulk cement and dry pulverized fly ash inside a totally enclosed system.
- (v) Spills of dirt or dusty materials shall be cleaned up promptly so that the spilled material does not become a source of fugitive dust and also to prevent seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean-up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained / cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas.
- (vi) Clear vegetation only from areas where work will start right away.

Adopt measures to prevent air pollution in the vicinity of the site due to construction activities. There is no standard reference for this. The best practices should be followed (as adopted from international best practice documents and codes).

Provide safety barricading of site by drawing ribbon band along the site boundary, next to a road or other public area.

The contractor shall provide experienced personnel with suitable training to ensure that these methods are implemented. Prior to the commencement of any work, the method of working, plant equipment and air pollution control system to be used on -site should be made available for the inspection and approval of the Engineer -in-Charge to ensure that these are suitable for the project.

Employ measures to segregate the waste on-site into inert, chemical or hazardous wastes. Recycle the unused chemical/hazardous wastes such as oil, paint, batteries and asbestos. As per GRIHA rating manuals (inert and Hazardous waste must be collected and stored separately from site. Proper training must be given to all construction workers in order to train them to be able to handle different kind of waste on site. In addition to segregating the inert

and hazardous waste, it is also important to either reuse the construction waste on site or safely dispose it off to designated agencies for recycling.

To preserve the existing landscape and protect it from degradation during the process of construction. Select proper timing for construction activity to minimize the disturbance such as soil pollution due to spilling of the construction material and its mixing with rainwater. The construction management plan including soil erosion control management plan shall be prepared accordingly for each month. The application of erosion control measures includes construction of gravel pits and tyre washing bays of approved size and specification for all vehicular site entry/exits, protection of slopes greater than 10%. Sedimentation Collection System and run-off diversion systems shall be in place before the commencement of construction activity. Preserve and protect the existing vegetation by not-disturbing or damaging to specified site areas during construction.

The Contractor should follow the construction plan as proposed by the Engineer-in-charge / landscape consultant to minimize the site disturbance such as soil pollution due to spilling. Use staging and spill prevention and control plan to restrict the spilling of the contaminating material on site.

Spill prevention and control plans should clearly state measures to stop the source of the spill. Measures to contain the spill and measures to dispose the contaminated material and hazardous wastes. It should also state the designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners and petroleum products.

A Soil Erosion and Sedimentation Control Plan (ESCP) should be prepared prior to construction and should be applied effectively.

The contractor shall prepare and submit '**Spill prevention and control plans**' before the start of construction, clearly stating measures to stop the source of the spill, to contain the spill, to dispose the contaminated material and hazardous wastes, and stating designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners, and petroleum products.

The contractor shall ensure that no construction leaches (Ex: cement slurry) is allowed to percolate into the ground. Adequate precautions are to be taken to safeguard against this including reduction of wasteful curing processes, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels, perimeter dike/swale, etc. shall be constructed to carry the pollutant -laden water directly to the treatment device or facility (municipal sewer line).

All lighting installed by the contractor around the site and at the labour quarters during construction shall be energy efficient fixtures of the appropriate illumination levels.

All paints, adhesives and sealants should comply with the VOC limits prescribed as a Green initiative as follows:

The VOC (volatile organic compound) content of adhesives and sealants used on the interior of the building must be less than VOC content limits mentioned below. A list of all the adhesives and sealants used for the project is to be submitted along with the manufacturer's certificate supporting the VOC content.

Architectural Applications	VOC Limit (g/l minus water)
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Wood Flooring Adhesives	100
Rubber Floor Adhesives	60
Architectural Applications	VOC Limit (g/l minus water)
Sub floor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove base adhesives	50
Structural Glazing Adhesives	100
Multipurpose Construction Adhesives	70

Substrate Specific Application	VOC Limit (g/l minus water)
Metal to Metal	30
Porous Material (except wood)	50
Plastic Foams	50
Wood	30
Fibreglass	80

Specialty Application	VOC Limit (g/l minus water)
PVC Welding	510
CPVC Welding	490
ABS Welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Top and Trim Adhesive	250
Contact Adhesive	80

Special purpose Contact Adhesive	250
Structural wood member adhesive	140
Sheet applied rubber lining operations	850
Sealants	VOC Limit (g/l minus water)
Architectural	250
Non Membrane Roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
Sealant Primers	
Architectural, nonporous	250
Architectural, porous	775
Other	750
Aerosol Adhesives	
General purpose mist spray	65% VOC's by weight
General purpose web spray	55% VOC's by weight
Special purpose aerosol adhesives (all types)	70% VOC's by weight

All the building materials and systems used on site must be as per the specifications and approved makes by the Engineer-In-Charge.

All required certificates explaining the properties of the building material/system needs to be obtained from the manufacturer/vendor as required by the green building rating authority. The final certificates would be produced after the approval of green building consultant with necessary due diligence. The purchase orders of all the materials made with the manufacturers / authorized vendors should be maintained and shall be provided for the process with due diligence upon request.

Water saving measures as suggested by the consultants need to be followed on site.

PARTICULAR SPECIFICATIONS (Civil Component)

1. GENERAL

- 1.1** The work shall be carried out as per CPWD Specifications 2019 Vol. I & II with upto date correction slips.
- 1.2** The work shall be executed and measured as per metric dimensions given in the Schedule of quantities, drawings etc. (F.P.S. units wherever indicated are for guidance only).
- 1.3** Wherever any reference to any Indian Standard Specification occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued thereto or revisions thereof, if any.
- 1.4** Unless otherwise specified in the schedule of quantities the rates for all items of the work shall be considered as inclusive of pumping out or bailing out water if required for which no extra payment will be made. This will include water encountered from any source, such as rains, floods, and sub-soil water table being high due to any other cause whatsoever.
- 1.5** Unless otherwise specified in the schedule of quantities, particular specifications or CPWD specifications (subject to the order or preference) the rates tendered by the tenderer shall be all inclusive and shall apply to all lifts, all heights and all floor including terrace, leads and depths and nothing extra over and above the schedule of quantity shall be payable on this account.
- 1.6** The work shall be carried out in accordance with the Architectural drawings, structural drawings and approved shop drawings. The structural shop and architectural drawings shall have to be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, the contractor shall obtain final decision of the Engineer-in-charge. In case of any discrepancy in the item given in the schedule of quantities appended with the tender and architectural drawings related to the relevant items, the former shall prevail unless and otherwise given in writing by the Engineer in charge. Nothing extra shall be payable on this account.
- 1.7** Wherever any reference to any Indian Standards occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the date of receipt of tenders.
- 1.8** The following additional specifications shall apply:
 - 1.8.1** All stone aggregate and stone ballast shall be of hard stone variety and to be obtained from quarries near & around to site of work, approved by the Department of Mines, Govt. of A.P. and as per direction of the Engineer in charge.
 - 1.8.2** Coarse sand should be obtained from sand quarries of nearby rivers, approved by the Department of Mines, Govt. of A.P. and as per direction of the Engineer in charge and to be used for cement concrete work including RCC, mortar for masonry and plaster work shall be of standard quality and screened as required. It shall be clean sand.

In case of non-availability of sand, the agency may be permitted at the discretion of Engineer-in Charge to use **crushed stone sand** on their request on production of adequate proof of non-availability of the same, provided it confirms to grading and other requirements given in CPWD specifications. The change in sand type or source would require revision of Mix Design of Concrete from the approved laboratories such as SVU/Tirupati or JNTU Ananthapuram or any Government Engineering College / Institute, for which nothing extra shall be paid nor any extra time will be granted. In case of use of crushed stone sand, all necessary precautions for CC work, RCC work, masonry work, plaster work and all other related works shall be taken by the agency as per relevant CPWD specifications and BIS codes without any extra cost.

- 1.9** The rates for all items of work shall unless clearly specified otherwise include for all floor levels of building and cost of all operations and all inputs of labour, material, T&P, scaffolding, wastages, watch and ward, other inputs, all incidental charges, all taxes, GST, duties, levies etc. required for execution of the work.
- 1.10** All crossings, embedment etc. in walls and floors for water supply, drainage and sanitary pipes, fittings etc. shall be provided for individual walls and floors so as to avoid cuttings of masonry work and floors. All such areas shall be made good during finishing and nothing extra shall be payable on these accounts.
- 1.11 Product delivery, storage and handling of chemicals.**
 - 1.11.1** The contractor shall construct storage space for Chemicals to ensure that the storage conditions are as recommended by the manufactures.
 - 1.11.2** All the materials shall be procured and delivered in sealed containers with labels legible and intact.
 - 1.11.3** All the chemicals (polymers, epoxy, water proofing compound, plasticizer, Polysulphide, all exterior and interior paints, polish etc.) shall be procured in convenient packs say 20 litres/Kgs.} capacity packing only or as approved by the Engineer-in-Charge, and not in bigger capacity containers, say 200 litre (Kgs.) drums unless otherwise specifically permitted by the Engineer-in-Charge. One sample from each lot of the chemical procured by the contractor shall be tested in an approved laboratory.
 - 1.11.4** All material required for the execution of the work shall be got approved, procured and deposited with the Departmental supervisory staff. The materials shall be kept in joint custody of the contractor and the Department. The watch and ward of such material shall, however, remain to be the responsibility of the contractor and no claim, whatsoever, on this account shall be entertained. Different containers of each chemical shall be serially numbered on packing and also consumed in that order. Day-to-Day account of receipt, issue and balance shall be regulated by the Department and proper account shall be maintained at site of work in the prescribed form as per the standard practice.
 - 1.11.5** All the chemicals shall be procured by the contractor directly from the manufacturer. In exceptional circumstances, the contractor may be allowed to procure the materials from the authorized dealers of the manufacturers, if specifically permitted by the Engineer-in-Charge.

- 1.11.6 The original copies of challan / cash memos towards the quantity of various chemicals procured shall be made available by the contractor at the request from the Engineer-in-Charge and a copy of the same shall be kept in record.
- 1.11.7 The Name of manufacturers, manufacturer's product identification, manufacturer's mixing instructions, warning for handling and toxicity and date of manufacturing and shelf life shall be clearly and legibly mentioned on the labels of the each container.
- 1.11.8 The contractor shall submit for the chemicals procured, manufacturer's and / or authorized dealer's certificate regarding supplying and verifying conformance to the material specifications, as specified.
- 1.11.9 All filled containers shall be handled in safe manner and in a way to avoid breaking container seals.
- 1.11.10 Empty containers of the chemicals should not be removed from site till the completion of work and shall be removed only with the written approval of the Engineer-in-Charge.
- 1.11.11 All arrangements for measuring, dosing and mixing of material / chemicals at site have to be made by the contractor.
- 1.11.12 Contractor shall suitably advise his site Engineer and all the workers as regards safe handling of chemicals. Necessary protective and safety equipments in form of hand gloves, goggles etc. shall be provided by the contractor and be also used at site.
- 1.11.13 All incidental charges of any kind including cartage, storage and wastage and safe custody of material etc. shall be borne by the contractor and no claim, whatsoever, shall be entertained on this account.
- 1.11.14 The chemicals shall be tested in an independent laboratory as approved by the Chief Engineer at the frequency as specified. If required, more samples may have to be tested as per the directions of the Engineer-in-Charge. Nothing extra shall be payable on this account. However, all the testing charges shall be borne by the Contractor.

2 **EARTH WORK:-**

- 2.1 Earth work shall be executed as per CPWD specifications.
- 2.2 Excavation shall be undertaken to the width of footing including necessary margins for construction operation as per drawing or directed otherwise. Where the nature of soil or the depth of the trench and season of the year, do not permit vertical sides, the contractor at his own expense shall put up the necessary shoring, strutting and planking or cut slopes with or without steps, to a safer angle or both with due regard to the safety of personnel and works and to the satisfaction of the Engineer. Measurement of plan area of excavation for payment shall only be permitted.
- 2.3 All the major excavation shall be carried out by mechanical excavator. No extra payment shall be made for that.
- 2.4 The contractor shall make at his own cost all necessary arrangements for maintaining water level, in the area where works are under execution low enough so as not to cause any harm to the works or problems in carrying out with the execution and the rates for all items of work shall be considered as inclusive of pumping out or bailing out

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

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water, if required and for which no extra payment shall be made. This will include water coming from any source, such as rains, accumulated rain water, floods, leakages from sewer and water mains subsoil water table being high or due to any other cause whatsoever. The contractor shall make necessary provision of pumping, dredging, bailing out water coming from all above sources and excavation and other works shall be kept free of water by providing suitable system approved by the Engineer-in-Charge.

- 2.5** De-watering required, if any, shall be done conforming to BIS Code IS: 9759 (guide lines for de-watering during construction) and / or as per the specifications approved by the Engineer-in-Charge. Design of an appropriate and suitable dewatering system shall be the Contractor's responsibility. Such scheme shall be modified / augmented as the work proceeds based on fresh information discovered during the progress of work, at no extra cost. At all times during the construction work, efficient drainage of the site shall be carried out by the Contractor and especially during the laying of plain cement concrete, taking levels, etc. The Contractor shall also ensure that there is no danger to the nearby properties and installations on account of such lowering of water table. If needed, suitable precautionary measures shall be taken by the Contractor. Also the scheme of dewatering adopted shall have adequate built in arrangement to serve as stand-by to attend to repair of pumps etc. and disruption of power / fuel supply. Nothing extra shall be payable on this account.
- 2.6** In trenches where surface water is likely to get into cut / trench during monsoons, a ring bund of puddle clay or by any other means shall be formed outside, to the required height, and maintained by the Contractor. Also, suitable steps shall be taken by the Contractor to prevent back flow of pumped water into the trench. Nothing extra shall be payable on this account.

3.WATER:

1. Water to be used in manufacturing and curing of Concrete shall be tested before use. All such tests shall be submitted to the Engineer in charge for his approval before water is used in work.
2. Contractor shall identify the location of source of water intended to be used. Each such source of water shall be separately tested. In the event of a change in source of water all tests specified herein shall have to be repeated.
3. In the event of water is drawn from tube wells or open wells, water samples shall be for seasonal fluctuations in water table or at intervals to be directed by the Engineer in charge.
4. Water samples from each source shall be tested as under:

Test	Number of tests for each source
a. Acidity	3
b. Alkalinity	3
c. Presence of Solids	3

Mean values of the above tests shall be taken as the representative value and the acceptance criteria shall be based on these test results. All testing procedure and computation of test results shall conform to IS: 3025

5. Approved quality water shall be collected and stored in the Under-Ground sumps/elevated tanks for the day to day requirement of work and same shall be used for all cement works and also for curing. Due care shall be taken in this regard.

3.17. RCC WORK (ORDINARY)

- 3.17.1 The work shall be done in accordance with CPWD Specifications.
- 3.17.2 Water Cement ratio for Ordinary RCC work shall not be more than 0.5. Contractor shall use concrete mixture of proper design having arrangement for measuring water for mixing of concrete.

3.18 FORM WORK

- 3.18.1 The work shall be done in general as per CPWD Specifications.
- 3.18.2 Only M.S. centering / shuttering and scaffolding material unless & otherwise specified shall be used for all R.C.C. work to give an even finish of concrete surface. However, marine-ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor to be approved by the Engineer-in-Charge.
- 3.18.3 Nothing extra shall be paid for the centering and shuttering, circular in shape whenever the formwork is having a mean radius exceeding 6m in plan.
- 3.18.4 Nothing extra shall be paid for grid beams and the corresponding slabs having clear span more than 1.20 metres.
- 3.18.5 In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the level of top surface of R.C.C. shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the Contractor except the places where different type of flooring is provided in the same room.

As per general engineering practice, level of floors in toilet / bath, balconies, shall be kept 12 to 20mm or as required, lower than general floors shuttering should be adjusted accordingly. Nothing extra is payable on this account.

- 3.18.6 Steel shuttering as approved by the Engineer-in-Charge shall be used by the contractor. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces are required to complete the shuttering panels.

Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work.

The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound such as "Reebole" of FOSROC or equivalent shall be applied on the surface of the shuttering plates in the requisite quantity before assembly of steel reinforcement. Nothing extra shall be paid on this account.

- 3.18.7 Concreting of upper floor shall not be done until concrete of lower floor has set at least for 14 days but form work and reinforcement can be taken up after the concrete has set at least for three days.

3.18.8 Double steel scaffolding having two sets of vertical supports shall be provided for external wall finish, cladding etc. The supports shall be sound and strong, tied together with horizontal pieces over which scaffolding platform shall be fixed. Scaffolding shall have steel staircase for inspection of works at upper levels. Nothing extra shall be paid on this account.

3.19. REINFORCEMENT: -

3.19.1. The reinforcement shall be done as per CPWD Specifications.

3.19.2. The rate of item of reinforcement of RCC work includes all operations including straightening, cutting, bending, welding, binding with annealed steel or welding and placing in position at all the floors with all leads and lift complete as per CPWD Specifications.

3.19.3 The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. **Spacer blocks shall be cast well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/S Fosroc Chemicals India Ltd. or approved equivalent)** of high early strength and same colour as surrounding concrete. However, Cover Guard Bars shall also be used to maintain proper cover of RCC Columns in addition to spacer blocks as mentioned above. Pre-cast cement mortar/concrete blocks/blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-charge. The rate of RCC items is inclusive of cost of such cover blocks & Cover Guard Bars. Nothing extra shall be paid on this account.

4.0 MASONRY WORK:-

4.1.1 The block work shall be carried out with good quality Fly ash cement blocks of class designation 10 (strength not less than 100kg/sq.cm) as per CPWD Specifications.

4.1.2 The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.

4.1.3 Brick work provided around shaft or lift walls or around slab cutouts shall be measured in the brick for corresponding floor level. Nothing extra shall be paid on this account.

4.1.4 M.S. Strip/ Bar provided at every third course of half brick masonry shall be in single piece. If required, welding joint can be used without overlaps. Nothing extra shall be paid for welding and overlaps.

FORM FOR GUARANTEE BOND

GUARANTEE TO BE EXECUTED BY CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION OF WORK IN RESPECT OF Synthetic Acrylic Surface Flooring.

The agreement made this..... day of (Two Thousand _____) between S/o (hereinafter called the GUARANTOR on one part) and the PRESIDENT OF INDIA (hereinafter called the Government on the other part)

Whereas this agreement is supplementary to a contract (hereinafter called the Contract) dated and made between the GUARANTOR on one part and the GOVERNMENT on the other part where by the Contractor inter alia, undertook to render the Synthetic acrylic floor surface in the said contract recited completely fault proof.

And whereas the Guarantor agreed to give a guarantee to the effect that the said flooring shall remain fault proof for five years from the date of completion of work.

Now the Guarantor hereby guarantees that synthetic acrylic flooring treatment given by him shall retain being fault proof and the minimum life of such treatment shall be five years to be reckoned from the date completion of work.

Provided that the Guarantor will not be responsible for damages caused by earthquakes or structural defects or misuse of flooring or alterations and for such purpose.

Misuse of flooring shall mean by operation, which will damage flooring treatment, like chopping of firewood and things of the same nature, which might cause damage to the floor paint.

Alteration shall mean construction of an additional storey or a part of roof or construction adjoining to existing roof, where by flooring treatment is removed in parts.

The decision of the Engineer-in-Charge with regard to cause of failure of flooring shall be final.

During this period of guarantee, the Guarantor shall make good all defects and in case of any defects being found, render the same at his own cost, to the satisfaction of the Engineer-in-Charge 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 Department through 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 is the Guarantor fails to execute the necessary rectification or commits breach there under 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 reasons of any default on the part of 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 where of these presents has been executed by the Obligator _____ 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:

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

NOTE : The Guarantee bond to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/- and shall be duly notarized.

SPECIAL CONDITIONS FOR SPORTS RELATED WORK

The lowest bidder to whom this work will be awarded must associate with agencies of the appropriate eligibility for the below mentioned specialized nature of items / work listed. Such works shall be got executed only through associated specialized agencies in these fields.

SI.No	Specialized work(s)/ item of work(s)	Eligibility Criteria of Associated Agencies
(i)	Synthetic acrylic coating	1) Agencies who have satisfactorily executed during the last 7 years ending last day of the month previous to the one in which tender is invited— "Application of synthetic acrylic coating layer on tennis courts/outdoor basketball courts with ITF approved material as per preferred make list S.no155 in atleast One work having 680 sqm or Two works of 510 sqm each along with supplying and installation of backstop unit in any IIT/NIT/SAI/IIM or any other reputed institution or organization. 2) The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of tenders.

B. SPORTS FACILITIES: -

1. The works of various sports facilities shall be carried out as per ITF/SAI specifications, unless otherwise specified.
2. The contractor shall have to associate vendors fulfilling the eligibility criteria as specified in the tender documents. The contractor shall submit valid registration documents of such vendors to the Engineer - in -Charge for approval.
3. The department shall not be responsible for any delay in receiving of imported materials due to custom clearance, any international event affecting the shipment routes etc. All custom clearances to be received by the contractor himself. **No expenditure on this account shall be entertained by the department or client.**
4. The contractor shall not emboss the name of the product or company on the court.

The main agency shall have to submit credentials of such specialized agency along with full technical details of works executed, to whom he wants to engage for the work and shall have to obtain prior approval from the engineer in charge.

The responsibility of the quality of work executed by the specialized agency shall be owned jointly by the specialized agency and main agency. However, prime responsibility shall be owed by the main agency.

LIST SHOWING PREFERRED BRANDS/ MANUFACTURERS/MAKES

NOTE: - 1) A List of Preferred Brand Names of Various Materials / Products are shown below for usage in execution of Work. However, approved equivalent material of any other Specialized Companies / Firms may also be used, in case it is established that the Brands Specified below are not available in the market or in other unavoidable circumstances and subject to Approval of the alternate Brand by the Engineer-In- charge. However, in case, the equivalent model so approved, is cheaper than the model already mentioned in item/approved makes list, the price adjustment will be made based on the difference in market rate. In case, the rate of subsequently approved model is more, no extra payment will be made on this account.

It must be ensured, in general, that all materials to be used in the works shall bear BIS Certification mark. In cases where for a particular material/product, BIS Certification Mark is not available, then the material proposed to be procured can be used subject to the condition that it should conform to CPWD Specifications and relevant BIS codes. In such cases written approval of the Engineer-in -Charge shall be obtained before use of such material in their works.

The list given below does not absolve the Executing Agency from their responsibility for using these products. It is only after, they are satisfied about the quality and performance, the products shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.

Any other brand as approved by ADG- Hyderabad shall be deemed to be part of the list mentioned below. However, if any new product is included in the list, necessary cost adjustment shall be made. Further no additional payment shall be made due to change of product on account of sample finalization.

Sl. No.	Material Description	Brand	Makes *
1	AAC Blocks	A B Dinesh	A B Dinesh
		Areocon	HIL
		Bilt	Bilt
		Ecorex	Ecorex
		Fastbuilt	Fastbuilt
		Kncrete	Koncrete
		NCL	NCL VEKA Ltd.
		Nucon	Green Way building materials India Pvt. Ltd.
		Renacon	RenaatusProcon Pvt. Ltd.
		Siporex	SIPOREX
		Xtralite	Ultra Tech Cement Ltd
		SMART BRIX	M/s Smart Brix Infra Technology Pvt. Ltd., Jaggaiahpet Mandal, Krishna District, A.P. - 521175
2	Acoustic Insulation	Anutone	Anutone Acoustics Ltd.
		HimalyanAccoustics	HimalyanAccoustics
		Kanuf	Knauf Gypsum India Pvt. Ltd.
		Lloyd Insulation	Lloyd Insulation (India) Ltd.
		Saint Gobain Gyproc	Saint Gobain Gyproc India
		Twingerinsul	U.P. Twiga fiber glass Ltd.
		Ardex endure	Ardex endure

Sl. No.	Material Description	Brand	Makes *
3	Actativ polypropylene (APP) Modified water proof membrane	Bitumat Co Ltd	Bitumat Co Ltd
		Ferrous crete	Ferrous Crete (India) Pvt Ltd
		Hydrotech ltd	Hydrotech ltd
		Pidilite	Pidilite industries
		STP	Shalimar tar products
4	Acrylic emulsion	Asian Tractor Premium emulsion	Asian paint
		Berger (BISM)	Berger Paints
		Dulux (Super Cover)	ICI Dulux
		Nerolac (Beauty Gold)	Nerolac
		SURFA	M/s Surfa Coats (India) Pvt., Ltd., Bangalore
5	Acrylic smooth exterior paint	Apex (ACE)	Asian Paints
		Berger	Berger
		Dulux	ICI duLux
		Nerolac	Nerolac
		Nippon	Nippon
		SURFA	M/s Surfa Coats (India) Pvt., Ltd., Bangalore
6	Acrylic textured plaster	Apex Duracast	Asian Paints
		Asian paints	Asian Paints
		Heritage	Heritage Rajkamal Group
		Nerolac	Nerolac
		Spectrum paints	Spectrum paints Ltd.
7	Acrylic exterior Texture	Akzonobel	Akzonobel
		Asian paints	Asian paints
		Berger	Berger paints India ltd
		Ebco	Ebco
		Nerolac	Nerolac paints Ltd.
8	Adhesive	Asian Paints	Asian Paints
		CICO	CICO Industries
		Dunlop	India Tyre& Rubber Co (India) Ltd.
		Finical	Pidilite Industries
		Proofex of Adhesive	FOSROC India
		Sika	Sika India Pvt. Ltd
		Vamorganic	Vamorganic Ltd.
		AC-Tile Bond-N	Apple Chemie(I) Pvt. Ltd
9	Adhesive for AAC Block/Tiles	Ardex Endura/Gold star	Ardex Endura
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd
		Tile Adhesive Plus	Berger Paints
		Ultra tech	Ultra tech cement ltd
10	Air transfer grills	Cool grills	Cool grills, Pune
		Systemair India	Systemair India Pvt Ltd.
11	Air release valve	Kartar	Kartar valves private Ltd.
		Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd
12	Aluminium doors/windows sections	Bhoruka	BhorukaAluminium Ltd.,
		Hindalco	Hindalco Industries Ltd..
		Hydro	Hydro Extrusion
		INDAL	Indian Aluminium Ltd.,
		Jindal	Jindal Aluminium Ltd ,
		Omalco Extrusion	Omalco Extrusion Pvt Ltd.
		Padmavati Exrusion	Padmavath Extrusion Private Ltd.

Sl. No.	Material Description	Brand	Makes *
13	Aluminium system/ Anodised Aluminium fittings for doors/windows	Bhoruka	Bhoruka Aluminium Ltd.,
		Define	Define Overseas Pvt. Ltd.
		Everite	Everite Agencies
		Hardima	Hardima sales corporation
		Jyothi	Jyothi industries
		Kawneer	Kawneer India
		Schueco	Schueco India Pvt. Ltd.,
		Sigma	Sigma Corporation
		CROWN	M/s Crown Industries
		Global	M/s Aluminium Udyog, New Delhi (for non ferrous metal hardware)
14	Aluminium composite panels	Alpolic	Alpolic
		Alstone	Alstone
		Alstrong	Alstrong
		Alex panel	M/s Alex Panels
		Alucobond	3A composites India Pvt Ltd.
		Aludecor	M/S Aludecor lamination Pvt ltd.
		Eurobond	M/S Euro panel products Pvt ltd.
		Eurobond	Eurobond pvt Ltd.
		Hynadecor	Hynadecor
		Reynobond	Reynobond
		ALUTECH	M/s Alutech Industries, New Delhi
		VIRGO	M/s VIRGO Laminates Ltd., Chandigarh
15	Aluminium framework	MFE (MIVAN)	(MIVAN)
		MFS	MFS
		S-form	S-form
16	Anchor/ SS Stone Cladding Clamps/ Dash fasteners	Anchor	Anchor Ltd.
		BOSCH	BOSCH Ltd.
		Canon	Canon
		Fischer	Fischer India
		Helfen	Helfen GmbH
		Hilti	Hilti India Pvt. Ltd.
		Nutech	Nutech Concrete Products Pvt. Ltd.
		Trixel	Axel India Pvt. Ltd.
		Wurth	Wuerth India Pvt. Ltd.
17	Anti corrosive bit mastic paint	Bergar	Berger paints India Ltd
		Bituminous black	Asian Paints
		Shalimar	Shalimar paints India Ltd.
18	Butt Hinges openable window shutters	Alu Alpha	Alu Alpha India
		Dorma	Dorma India Pvt. Ltd.
		Dorset	Dorset Industries Pvt. Ltd.
		Earit Bihari	Earit Bihari India Pvt. Ltd.
		Hafele	Hafele India Pvt. Ltd.
		Helix	Helix India
19	Bamboo Wood Flooring and wall paneling.	AMITEX	AMITEX Enterprises, Delhi.
		Eco green Flooring	Jupiter Traders Bangalore.
		Floor India	Flooring India Company, Panipat, Haryana.
		FLOSTO Tanks	Devi Polymer Pvt.,Ltd., Chennai.
		VIVANTA	VIVANTA Enterprises, Mumbai.
		EPITOME	M/s Mutha Industries Pvt. Ltd., Mumbai
		Ambuja Cement	Ambuja Cements Ltd.

Sl. No.	Material Description	Brand	Makes *
20	Cement OPC / PPC	ACC	ACC Cements Ltd
		Bharathi	Bharathi Cement Corporation Ltd.
		Birla	Birla Corporation Ltd
		Century Cement	Birla Gold Cement
		Chettinad	Chettinad Cements Corporation Ltd
		Coromandal	India Cements Ltd.
		Dalmia	Dalmia Cement Bharat Ltd.
		Jaypee Cement	Jaypee Cement Ltd
		J.K. Cement	J.K. Cement Pvt. Ltd.
		Konark Cement	Konark Cement
		Maha Cement	Myhome Industries Pvt. Ltd.
		Penna Cement	Penna Cement Industries Ltd.
		Ramco Cement	M/s Ramco Cement Ltd.
		Shree Cement	Shree Cement
		Ultra Tech	Ultra Tech Cement Ltd
		Zuari	Zuari Cement Limited
		Nagarjuna Cement	M/s NCL Industries Ltd., Secunderabad
		NU VISTA / INFRACEM	M/s NU Vista Ltd. (Formerly M/s Emami Cements Limited)
		SAGAR CEMENTS	M/s SAGAR Cements Ltd., Hyderabad
		Anjani	M/s Anjani port land Cement Ltd., Hyderabad
21	Cement Concrete Parking Tiles	JSW	M/s JSW Cement Ltd., Mumbai
		Dazzle	Dazzle Designer tiles Pvt Ltd
		Eurocon	Eurocon tiles india
		Hindustan tiles	Hindustan tiles, Ranchi Pune
		NTC	NTC Parking tiles
		NITCO	NITCO Ltd
		Poddar	Poddar Udyog
		Ultra	Ultra tile private Ltd
		CEMTECH	M/s Cemtech Tiles, Uppal, Hyderabad
22	Cement based wall putty	DEC	M/s DEC Industries (P), Ltd.
		Altek	NCL Altek&seccold Ltd.
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Asian paints	Asian paints Ltd
		Berger	Berger
		Birla Wall Care	Birla Cements Ltd.,
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd
		J.K wall putty	J.K. Cement Ltd
23	Cement Board	DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
		Bison	Bison Group
24	Cement Primer	Everest	Everest Techno polis
		Asian paints	Asian Paints
		Berger	Berger paints India Ltd.
		JK Primaxx	JK Cement Ltd
25	Centrifugal Hubless Cast Iron Pipe & Fittings	SURFA	M/s Surfa Coats (India) Pvt., Ltd., Bangalore
		Kapilansh	KapilanshDhattu Udyog (P) Ltd.
		NECO	Jayaswal NECO Ltd.
		Raj (RPMF)	Raj Pattern Makers and Founders Pvt.,Ltd.

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

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Sl. No.	Material Description	Brand	Makes *
		SKF	SinghaliornFoundaryPvt.,Ltd.
		BIC	M/s Bengal Iron Corporation, Kolkata
26	Centrifugally (Spun) cast Iran	Electrosteel	Electrosteel castings Ltd.
		Jindal	Jindal saw Ltd.
		Kesoram	Kesoram Industries Ltd.
		Lanco / Sripipes	Electrosteel castings Ltd.
27	Centrifugally Caste (Spun) Iron Soil Pipe	Bengal Iron Corporation	Bengal Iron Corporation
		HEPCO	HEPCO
		Kapilash	Kapilash Dhatu Udyog (P) Ltd.
		Neco	Jayaswal Neco Ltd
		RPMF	Raj Pattern Makers and Founders Pvt. Ltd
		SKF	SKF industries
28	Chemical water proofing system	BASF	BASF India Ltd.
		Dr. Fixit	Pidilite industries
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Fosroc	Fosroc India
		Latex shield 2K/Tank shield PW	Berger Paints Ltd.
		MC- Bauchemie	MC- Bauchemie India Ltd.
		Perma construction Aid	Perma construction Aid Pvt Ltd
		Sika	Sika India
		Smart Care	Asian Paints Ltd.
		Sunanda speciality coating	Sunanda speciality coating Pvt Ltd.
29	Chloropyriphos	DURSBANTCT	DE-NOCIL Ltd.
		HILBAN	Hindustan Insecticides Ltd.
		NOBAN	Chemts Wets & Flows Pvt. Ltd
		PIRAMID	AMVAC AGRI RASAYAN Pvt. Ltd.
		Premise Agenda	Bayer Ltd.
		Sarups Pest Control	Sarups Pest Control Ltd.
30	CI double flange sluice valve	BURN	BURN
		IVS	Indian Valves Private Ltd.
		Kartar	Kartar valves private Ltd.
		Kirloskar	Kirtoskar brothers Ltd.
		Leader	leader valves Ltd
		RBM	AF-S LL
		Zoloto	Zoloto Industries
31	CI double flangad non raturrn valve	Fluidtech	Fluidtech
		Kirloskar	Kirloskar Brothers Ltd.
		Zoloto	Zoloto Industries
32	CI Manhole cover	BIC	Bengal iron corporation
		HEPCO	HEPCO India
		Neco	Jayaswal Neco Ltd..
		RPMF	M/s Raj Pattern Makers & Founders Pvt. Ltd.
		SKF	SKF Industries
33	Clamp, Rebar, Chemical fastener	Fischer	Fischer India
		Hilti	Hilti India Pvt.Ltd.
		Wurth	Wuerth
		CERA	M/s Cera Sanitaryware Ltd.
		ESS Bathsense& Royal	Asian Paints Ltd.

Sl. No.	Material Description	Brand	Makes *
34	C.P.Brass Fittings	Hindware	HSIL Ltd.
		Jaquar	Jaquar Group
		Johnson	Prism Johnson Ltd.
		KEROVIT	M/s Kajaria Ceramic Limited
		Kingston	Kingston Brass India Pvt., Ltd.
		MARC	MARC Sanitation Pvt.Ltd.
		Parryware	Parryware Sanitaryware
35	CPVC pipe and fittings	Ashirwad	Ashirwad PVC Pipes
		Astral	Astral Polytechnik Ltd..
		Birla HIL Pipes	HIL Ltd.
		Finolex	Finolex Industries Ltd.
		Flowgard	Flowgard
		Prince	Prince Pipes and fittings Ltd.,
		Supreme	Supreme Industries Ltd.
		Truflor	HIS Ltd.
		SENTINI	M/s SentiniFloppipes India Pvt. Ltd, Hyderabad
		DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
36	Concealed tower bolt	SUDHAKAR	M/s Sudhakar Irrigation Systems Pvt., Ltd.
		AKG	M/s AKG Extrusions Pvt Ltd.,
		Alu Alpha	Alu Alpha India
		Dorma	Dorma India Pvt. Ltd.
37	Damp Proof material	Dorset	Dorset Industries Pvt. Ltd.
		Ingersolrand	Ingersolrand (India) Ltd.
		ACCO Proof	ACC Cements Ltd
		Asian Paints smart care damp proof	Asian Paints Ltd.
		BASF	BASF India Ltd.
		CICO	CICO Industries
		Dr. Fixit	Pidilite Industries
		Duraseal	Apurva India Pvt. Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Fosroc	Fosroc Chemicals India Pvt. Ltd.
		Impermo	Snowcem Paints
		MAPEI	MAPEI Construction Products India P Ltd
		MYK	MYK LATICRETE India Pvt. Ltd.
		PIDILITE	Pidilite Industries
		SIKA	Sika India Pvt. Ltd.
		Weather Coat Roof Guard	Berger Paints India Ltd.
38	DI Fittings	Electro steel	Electro steel
		Jindal	Jindal
		Kapilansh	Kapilansh
		Keshoram	Keshoram
		Tata Ductura	Tata Ductura
39	DI Pipes	Electrosteel	Electrosteel
		Jindal	Jindal
		Keshoram	Keshoram
		Tata Ductura	Tata Ductura
		Amstrong	Amstrong flooring

Sl. No.	Material Description	Brand	Makes *
40	Engineered wood floor	Mikasa Real wood floors	Grean Lam Industries
		New wood	Naw Wood India Ltd
		Pergo	Red floor India
		Werner	Dura floor wemer GmbH
41	EPDM Gaskets	Amees Rubber	Amees Rubber industries Pvt Ltd
		Anand	Anand NVI-I products (P) Ltd.,
		Bohra	Bohra rubber Pvt Ltd..
		Hanu	Hanu Industries
		Roop	Roop Polimers Ltd.,
42	EPDM water proofing Membrane	Ferrous Crete	Ferrous Crete (India) Pvt Ltd
		Fosroc	Fosroc India
		Pidilite	Pidilite Industries
		Smart care	Asian paints
		STP	Shalimar tar products
43	Epoxy	Ardex	Ardex Endura Ltd.
		Asian paints	Asian paints
		CICO Poxxy	CICO Technologies Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Fosroc	Fosroc India
		Shalibons	Shalimar tar products
44	Epoxy Paint	Ardex Endura	Ardex Endura India Pvt. Ltd.
		Asian epoxy	Asian Paints
		Berger	Berger paints India Ltd.
		Nerolac	Nerolac
		Shalimar	Shalimar paints India Ltd.
		STP Ltd.	Shalimar Tar Products
		SUNANDA	M/s Sunanda Specialty coatings Pvt. Ltd., Mumbai
45	Epoxy tile joint cements	Ardex Endura	Ardex Endura India Pvt. Ltd
		BASF	BASF India Ltd.
		Ferrous Crete	Ferrous Grete (India) Pvt. Ltd
		Fosroc	Fosrocindd
		Laticrete	MYK Laticrete India
46	Expansion Joint Bitumen board	Dura Board HD100	Supreme Industries
		DURAFILL	Supreme Industries
		STP	Shalimar Tar Products
47	False Ceiling	Aerolite	Andhra Polymers Pvt. Ltd./AeroliteIndustnas Pvt. Ltd.
		Armstrong	Armstrong Wond Indusvies
		Diamond (GRG Ceiling Tiles)	Diamond International Inex Pvt. Ltd.
		Gridsquare	Gridsquare Ceilings
		Gypframe steel	British Gypsum
		Knauf	Knauf Gypsum India Pvt. Ltd.
		Lloyd	Lloyd Insulation (India) Ltd
		Saint Gobain	Saint Gobain Gyproc
		DEC	M/s DEC Industries (P) Ltd., Hyderabad
	False ceilings Members (Perimeter, Ceiling section,	Aerolite	Andhra Polymers Pvt. Ltd./Aerolite Industries Pvt. Ltd
		Anutone	AnutoneAccoustics Ltd.
		Armstrong	Amstrong World Industries
		Gridsquare	Gridsquare Ceilings
		Hunter Dougals	Hunter Dougals

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

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Sl. No.	Material Description	Brand	Makes *
48	intermediates, angles etc.,)	Knauf	Knauf Gypsum India Pvt. Ltd.
		Saint Gobain Gyproc	Saint Gobain Gyproc India
		USG Boral	USG Boral
		DEC	M/s DEC Industries (P) Ltd., Hyderabad
49	False Floor	Access floor sytem	Access Floor system
		Hewetson	Hewetson India
		Kebao	Inner Space (Distributors)
		PINNACLE	PINNACLE
		Unifloor	Unifloor India Ltd.
		Unitile	Unitile office systems Pvt. Ltd.
50	Fire Rated hardware	Backers FS	Backers FS
		Dorma	Dorma India Pvt. Ltd.
		Dorset	Dorset Industries Pvt. Ltd.
		Geze	Geze GMBH
		Ingersolrand	Ingersolrand (India) Ltd.
51	Fire rated glass	Contra Flam / Pyroswiss of Saint Gobain	Saint Gobain India Pvt. Ltd.
		Pilkinton	Pilkinton India
		Promat	Promat Fire & Insulation (P) Ltd.
		Pyran of Schott	Schott glass India Pvt. Ltd.
52	Fire retardant paint	Akzonobel	DulexAkzonobel Paints
		Asian paints	Asian Paints
		Hilti	Hilti India Pvt. Ltd.
		Jotun	Jotun paints
		STPL Ltd.	STPL Ltd.
53	Fire Smoke Seal	Atroflame	Atroflame Ltd.
		Hilti	Hilti India Pvt. Ltd.
		Promat	Promat Fire & Insulation (P) Ltd.
		Raven	Raven Global
54	Float Glass,	Saint Gobain	Saint Gobain India Pvt. Ltd.
		Asahi	Asahi India Glass Ltd.
		Pilkinton	Pilkinton India
		Modiguard	Gujarat Guardian Ltd.
		Gold Plus	M/s Gold Plus Glass Industry Ltd., New Delhi
55	Float Valve (Ball valve)	Arco	Arco valve Pvt Ltd
		IBP	IBP industries
		Leader	Leader valve Ltd
		Prayag	Prayag Polymers Pvt Ltd.
		Zoloto	Zoloto industries
56	Floor spring (For non DSR Items)	Dorma	Donna India Pvt Ltd.
		GEZE	GEZE GmbH
		Ingersolrand	Ingersolrand India Pvt Ltd
		OZONE	Ozone Hardware.
57	Flushing Cistern	Bath sense	Asian Paints
		CERA	CERA Sanitary ware Ltd.,
		Hindware	HSIL Ltd,
		Jaquar	Jaquar Group
		Kohler	Kohler
		Parryware	ROCA Bath Pvt. Ltd.,
		Somany	Somany
58	Fly ash cement bricks	Concerned CE/SE's will approve based on local availability.	

Sl. No.	Material Description	Brand	Makes *
59	FRP Door Frames & shutters	Ambieance	Ambieance
		Cactus	Cactus
		Duroplast	Duroplast Extrusion pvt ltd.
		Jain doors Pvt. Ltd.	Jain doors Pvt. Ltd.
		Jayna	Jain wood industries
		Meena fibre glass	Meena fibre glass
		Polyline	Polyline
		DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
60	Friction stay hinges	Earl Bihari	Earl Bihari Pvt. Ltd.
		KINLONG	KinlongIndustriss
61	FRP covers	Everlast Composites	Everlast Composites Pvt.,Ltd.
		Fibrocast	Fibrocast FRP cover manufacturer
		Thermodrain	Poly products (I) Pvt.,Ltd.
62	Galvolume sheet for roofing, cladding, sandwich panel	Bhushan	Bhushan steel
		Essar	Essar Group
		JSW	JSW
		Llyod metal craft	Llyod Insulation
		Tata Blue Scope	Tata Blue Scope
		BIRLA AEROCON	M/s HIL Ltd.
63	Galvanising	Jenco	Jenco Group
		Karamtara	Karamtara Engineering Pvt.,Ltd.
		Steel liteS	Galvanized Steel Ltd.
64	G I Pipe fittings	HB	HB Industries
		ICS	SgreesamarthEnglnears
		Surya	Surya Roshni Ltd.
		TATA	TATA Steel Ltd.,
		Unik	Unik malleable
		Zoloto	ZolotoIndustfiea
65	G.I. Pipes	HISSAR	HISSAR
		Jindal	Jindal Pipes Ltd.,
		Surya	Surya Roshni Ltd.
		TATA	TATA Steel Ltd.,
		Zenith	Zenith Birla (India) Ltd.
66	Glass door hardware	Classic	Classic Hardware
		Dorma	Dorma India Pvt. Ltd.
		Dorset	Dorset Industries Pvt. Ltd.
		Geze	Geze GMBH
		Godrej	Godrej
		Hafele	Hafele India Pvt. Ltd.
		Kich	Kich Architectural Products Ltd.
		Ozone	Ozone Hardware
		Squash	Squash glass doors
67	Glass mosaic tiles	Birla White	Birla Corportion Ltd.
		Bisazza	Bisazza Italy
		Coral	Coral tiles
		Italia	Tie italia mosaic Pvt Ltd
		JK White	JK Cement Ltd.
		Mridul	Mridut tiles
		Paljadto	Palladto Mosaics
		PAVIT (Eco Tile)	PAVIT Ceramics Pvt Ltd.
68	Glazed Ceramic tiles (Also wall	Aparna	Vitero Tiles
		AGL	Asian Granite India Ltd.
		CERA	CERA Sanitaryware Ltd

Sl. No.	Material Description	Brand	Makes *
	tiles)	Jonson	Prism Jonson Ltd.
		Kajaria	Kajaria Ceramic Ltd.
		NITCO	NITCO Ltd.
		Oasis	M/s Oasis Vitrified Pvt.Ltd.
		Orient Bell	Orient Bell Ltd.
		RAK	RAK Ceramic India Pvt. Ltd.
		Somany	Somany Ceramic Ltd.
		Varmora Granito	Varmora Granite Granite Pvt. Ltd.
		Vitero	Vitero Tiles Floor and Wall Tile Manufactures India
		Ultra	Ultra Ltd.
		NAVEEN	M/s Murudeswar Ceramics Ltd., Bangalore
69	GRC Jali & Tile	Ecovision	Ecovision Industries Pvt Ltd.
		Mahesh GRC	Mahesh Prefab Pvt Ltd.
		Terraforma	Terraforma GRC Industries
		Unistone	Unistone Interiors Pvt.,Ltd.
		DEC	M/s DEC Industries (P) Ltd.
70	GRP/SMC Panel Tank (New product in the market performance is yet to be established)	AMITEX	AMITEX Enterprises, Delhi.
		FLOSTO Tanks	Devi Polymer Pvt., Ltd., Chennai.
		PIPECO Tanks	PIPECO Tanks
		VIVANTA	VIVANTA Enterprises, Mumbai.
71	Grout	Asian Paints - Smart casre	Asian Paints Pvt. Ltd.
		Ardex	Ardex Endura Adhesive India Pvt. Ltd.
		BASF	BASF India Ltd.
		CICO	CICO Industries
		Dr. Fixit	Pidilite Industries
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Fosroc GP2	FOSROC India
		Fugabella, Porcelana	Kerakoll India Pvt. Ltd.
		Home shield super grout	Berger Paints India Limited.
		LATA POXY	MYK LATICRETE India Pvt. LTd.
		MYK Schomburg	MYK Arments Range of products
		SIKA	Sika India Pvt.Ltd.
		Weber	Saint Gobain India Pvt. Ltd.
		DEC (Non Shrink grout) (Note: Subject to statutory approvals)	M/s DEC Industries Pvt. Ltd., Hyderabad
		AC-Grout-H1/RR	Apple Chemie (I) Pvt. Ltd
72	Gun metal Valves	Audco	L&T Valves
		Leader	leader valves Ltd ,
		Sant	Sant Valaves Pvt. Ltd.
		Zoloto	Zolota Industries
73	Gypsum Board	Armstrong	Armstrong world Industries
		Gyproc Saint Gobain	Saint Gobain Gyprock India Ltd.
		Lafarge	Lafarge Gypsum India Pvt. Ltd.
		USG Boral board	USG Board India (P) Ltd.
74	Gypsum plaster	Ferrous crete (Ferro-500, Gypsum) Plaster)	Ferrous crete manufacturers

Sl. No.	Material Description	Brand	Makes *
		Gyproc Saint Gobain (Elite 90)	The Saint-Gobain group
		Ultra tech	Ultra Tech Cement Ltd.
75	Heat resistant tiles on terrace	ABC Ceramics	ABC Ceramics
		Endura	Johnson India
		Johnson	Johnson India
		Somany	Somany Ceramic Tiles
		Swastik	Swastik Tiles
		Thermatek	Thermatek
76	High Density (HDF) Prelaminated board	Armstrong	Armstrong world industries Ltd.
		Green ply	Green Ply Industries Ltd.
		Pergo	Red Floor India
77	High end exterior Texture	Allura/ Graniza range	Asian paints
		Berger	Berger paints India Ltd
		SKK Brand	SKK Ltd
78	Hydraulic door closers/ Floor springs	Dorma	Dorma India Pvt. Ltd.
		Dorset	Dorset Industries Pvt. Ltd.
		Everite	Everite agencies
		Godrej	Godrej locking solution & systems
		Hardwyn	Hardwyn hardware
		MAGNUM KIT	Mukund Overseas
79	Interlocking Concrete Paver Blocks	Basant Betons	Basant Betons
		BHARAT (NILSON)	Bharat
		Dazzie	Dazzle Designer tiles Pvt Ltd
		Hindustan tiles	Hindustan tiles, Ranchi Pune
		NITCO (ROCKARD)	NITCO
		REGENCY	Regency
		Shree	Shree Bharat Paver blocks
		Ultra	Ultra tile private Ltd
		Vyara Tiles	VYARA Tiles Pvt. Ltd. / Surat
		CEMTECH	M/s Cemtech Tiles, Uppal, Hyderabad
		DEC	M/s DEC Industries (P) Ltd.
		Any alternative tiles as approved by CE/SE based on local availability.	
80	Laminate	Archid ply	Archid ply industries Ltd.
		A1 Teak	A1 Teak Products Pvt.,Ltd.
		Century	Centuray laminates
		Decolam	Decolam India Pvt. Ltd.
		Formica	Formica Laminates (India) Pvt. Ltd.
		Green Lam	Green lam Industries Ltd.
		KANCHAN PLY	M/s Vidya Ply & Board Pvt. Ltd
		Kitmica	Kitply Industries Ltd.
		Merino	Merino laminates
		Royal touche	Royal touche laminates
		Sonear	Sonear Laminates
		Sunmica	Sunmica Industries
		DECO-MICA	M/s Deco-Mica Ltd
81	Linoleum sorts flooring	Armstrong	Armstrong flooring India Pvt. Ltd.
		Forbo	Forbo Flooring India Pvt. Ltd.
		Gerflor	Gerflor flooring
		Dorset	Dorset Industries Pvt. Ltd.
		Godrej	Godrej locking solution & systems

Sl. No.	Material Description	Brand	Makes *
82	Locks & Latches	Hafele	Hafele India Pvt. Ltd.
		Harrison	Harrison locks
		Hitech	Globe Locks India
		Helix	Helix India
		Link	Link Locks
		Plaza	Bharat lock House
		Yale	ASSA ABOLOY India (P) Ltd.
83	Masking Tapes	3M	3M
		Roop	Roop Polymer Ltd.
		Sun	Sun
		Wonder polymer	Wonder Tape Industries
84	Melamine Polish	Asian paints	Asian paints
		Melamine Gold Wudfin	Pidilite industries
		Polycure	Polycure Malaysia
85	Mechanical coupler for reinforcement	Dextra	Dextra India Pvt Ltd.
		Sanfield	Sanfield India Ltd.
		Alchemica	Alchemica Ltd.
		Ardex Endura	Ardex Endura Ltd.
		Asian paints	Smart care water proofing products
86	Membrane water proofing system	BASF	BASF India Ltd.
		Dr. Fixit	Pidilite industries
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Hydro tech	Hydro tech Ltd.
		MYK Schomburg	MYK Arments range of products
		STP Ltd	Shalimar tar products
		Texsa	Texsa India Ltd.
		KRYTON	M/s Kryton Buildmat Co. Pvt. Ltd. Gurugram, Haryana
		SUNANDA	M/s Sunanda Specialty coatings Pvt. Ltd., Mumbai
87	Metalic / Steel Fire Door	Godrej	Godrej Security Solutions
		Kenwood	Kenwood Ply & Board
		MPP Schodders	MPP Technology Pvt. Ltd.
		NAVAIR	NAVAIR International Pvt. Ltd.
		Promot	Promot fire & Insulation (P) Ltd.
		Shakthi Hormann	Shakthi Hormann Pvt. Ltd.
		Signumfire Protection	Signumfire Protection pvt. Ltd.
		Sukri	Sukri Fire Doors Pvt. Ltd.
		ASES (Agni suraksha)	M/s ASES Security Pvt. Ltd., Ghaziabad)
		DEC	M/s DEC Industries Pvt. Ltd.
88	Metal Deck Sheet	Essar	Essar Steel Ltd.
		JSW	JSW Structural Metal Decking Ltd
		SAIL	SAIL
		TATA	TATA steel
89	Mild Steel Butt Hinges/ Piano hinges	Amit	Lovely metal Industries Pvt. Ltd.
		Deepak	Deepak
		Garg	D.P. Garg & Company
		Jolly	Jolly Engineering works
		Jyoti	Jyoti Architectural Pvt. Ltd.
		Saswat	Saswat
		Supreme	Supreme Industries
		Swift	Swift screws

Sl. No.	Material Description	Brand	Makes *
90	Mirror	AIS Mirror	Asahi India Glass Ltd.
		Atul	Autl Glass Industries Ltd.
		Modi Guard	Gujarat Guardian Ltd
		Saint Gobain	Saint Gobain Glass India Ltd.,
		Gold Plus	M/s Gold Plus Glass Industry Ltd., New Delhi
91	Modular kitchen/ wardrobes/Hardware and Accessories	Evoke	Evoke
		Godrej	Godrej & Boyce co
		Sleek	Asian Paints
		Spacewood	Spacewood
92	M.S. Pipe, Tubes	Apollo	Appolo Tubes Ltd.
		JINDAL	JSW
		Kalinga	Kalinga Tubes Ltd.
		SAIL	SAIL
		Surya	Surya Roshi Ltd.
		TISCO	TATA STEEL
93	Multy walled polycarbonate roofing sheets	Danapalon	Danapal Light architecture
		Lexan GE	GE lexan
94	Non Asbestos Sheets	Everest	Everest Industries
		HIL	HIL Ltd.
		RAMCO	RAMCO Industries Ltd.
95	Non Metalic Fire door	Godrej	Godrej Security Solutions
		Kenwood	Kenwood Ply & Board
		NAVAIR	NAVAIR International Pvt. Ltd.
		Promot	Promat Fire & Insulation (P) Ltd.
96	Non Metallic floor surface hardness	BASF	BASF India Ltd
		CICo	CICO Technologies ltd
		Fosroc	Fosroc India
		Hardonite	Hardonite
		Ironite	Ironite
		Pidilite	Pidilite Industries ltd
97	Oil Bound Distemper	Sika	Sika India
		Berger (BISOM)	Berger Paints
		Dulux (Maxilite)	Dulux
		MG Polyplast	Nerolac
		Tractor Aqalock	Asian Paint
		SURFA	M/s Surfa Coats (India) Pvt., Ltd., Bangalore
98	Overdeck insulation with extruded polystyrene board (XPS board)	Dowcorning	Dowcorning
		Owen scorning	Owen scorning
		Supreme Petrochemical Ltd.	Supreme Petrochemical Ltd.
99	Panel Doors/Wire mesh Door shutters /Fire proof doors	Jain doors	Jain Door Pvt. Ltd.
		NCL	Nagarjuna
		ASES (Agni suraksha)	M/s ASES Security Pvt. Ltd., Ghaziabad)
		DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
100	PE-AL-PE Composite Pipes	Kitec	Kitec Industries (India) Pvt. Ltd.
101	Pink primer	Berger	Berger Paints
		Dulex	ICI dutax
		Nerolac	NerolacKansiaNerolac Pains Ltd.
		Nippon	Nippon

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

Sl. No.	Material Description	Brand	Makes *
		Wood primer	Asian paint
		SURFA	M/s Surfa Coats (India) Pvt., Ltd., Bangalore
102	Plasticiser & Super Plasticiser	BASF	BASF India Ltd.
		Chryso-HP/ Delta / Optima	Chryso India Pvt. Ltd.
		CICO	CICO Industries
		Contrament, Power flow	MC Bauchemie (India) Pvt. Ltd.
		Conplast SP 430	FOSROC India
		MYK Schomburg	MYK Arments Range of products
		Plastiment, Sikament	Sika India Pvt. Ltd.
		Smart Care Techno Plast/Smart care maximoplast.	Asian Paints Limited
		Sunanda Chemicals	Sunanda Chemicals Ltd.
		DEC (Admixture(PC, SNF) (Note: Subject to statutory approvals)	M/s DEC Industries Pvt. Ltd., Hyderabad
		VISCOFLUX 2203/2208	Apple Chemie (I) Pvt Ltd
103	Plastic Encapsulated Foot Rest	Accurate Buildcon	Accurate Buildcon company
		KGM	KGM Exports
		KK India	KK Manhole and gratings Co Pvt Ltd.
104	Play Equipments	Koochie Play	Koochie Play systems Pvt ltd.
		Play world systems	Play world systems India.
105	Post tensioning System	BBR	BBR (India) Pvt. Ltd.
		CRUX	Crux Processing systems Pvt. Ltd.
		Ultracon	Ultracon Structural Systems Pvt. Ltd.
		VSL	VSL India pvt. Ltd.
106	Poly carbonate Sheet	Alcox	Hindeggan Alcox Ltd.
		Danapalan	Danapal Light architecture
		GE Lexon	GE Silicones
		MG Polyplast	MG Polyplast
		DPI – Flux	M/s DPI Day lighting pvt. Ltd. Gurugram, Haryana
107	Polycarbonate Convex mirrors, Rubberised road hump	Unique safety solutions	Unique safety solutions
108	Poly sulphide sealant	Dr. Fixit	Pidilite industries
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Fosroc	Smart care sealant
		MYK Schomburg	MYK Arments range of products
		Pidilite	Pidilite Industries
		STP Ltd	Shalimar tar products
		Techseal	Choksey chemical Pvt ltd.
		Tuff seal	Bondit construction chemical
		AC-Poly seal	Apple Chemie (I) Pvt. Ltd
109	Polyethylene backer rod	Supreme	Supreme Industries
110	Polyurea Ultra	BASF	BASF
		Ferrous	Ferrous Crete (India) Pvt Ltd
		Pidilite	Pidilite Industries
		SIKA	SIKA India
		Smart care	Asian paints

Sl. No.	Material Description	Brand	Makes *
111	Powder coating	Akzonoble	Akzonoble Coating Ltd.
		Berger	Berger Paints India Ltd.
		Jotun	Jotun Group
112	Powder & PVDF Processer	Aura International	Aura International Pvt.,Ltd.
		MJ coaters	MJ Coaters Pvt.,Ltd.
		SP Coating	SP Architectural Coating Pvt.,Ltd.
113	Prelaminated particle board Exterior Grade	Archid ply	Archid Ply Industries Ltd.
		Associate	Associate Décor Limited
		Centuary	Centuary MDF
		Ecoboard	Ecoboard Industries Ltd.
		Green Lam	Green lam Industries Ltd.
		Kitlam	Kit Ply Industries Ltd.
		Merino	Marino laminates
		Novapan	GVK Novapan Industries Pvt. Ltd.
		TESA Action Co.	TESA Action Co.
		GREEN PANEL	M/s Green Panel Industries Ltd.
		Bison Panel	M/s NCL Industries Ltd., (Board division), Secunderabad
114	Premium Acrylic smooth exterior Paint with silicon additives	Berger	Berger
		Dulux	ICI dulux
		Nerolac	Nerolac
		ULTIMA	Asian paint
		SURFA	M/s Surfa Coats (India) Pvt., Ltd., Bangalore
115	PTMT/PVC water supply sanitary fittings, bibcocks, pillar cock Angle valve,	PEARL	Precision Products
		Prayag	Prayag Polymers (P) Ltd
		Supreme	Supreme industries
116	PT Strands	DP Wires	DP Wires Ltd.
		TATA wiron	TATA STEEL LTD.
		Usha Martin	Usha Martin Ltd.
117	PVC Doors and Frames	Ambieance	Ambieance
		Accucel	Accura Polytech Pvt. Ltd.
		Duroplast	Duroplast extrusion Pvt. Ltd.
		Encraft	Encraft India Pvt. Ltd.
		Plastic Wood	Plastic Wood
		Polyline	Polyline extrusion Pvt. Ltd.
		Rajshri	Rajshri Productions Pvt. Ltd.
		Sintex	Sintex Plastic technology Ltd.
		VEKA	M/s NCL Veka Ltd.
		DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
		RAJSHRI	M/s Rajshri Plastiwood, Pithampur, M.P.
		GIZA	M/s Navratan Soociality Chemicals LLT., Ahmedabad – 380051, Gujarat
118	PVC / HDPE water storage tanks	Sintex	Sintex Plastic technology Ltd.
		Supreme	Supreme Industries Ltd.
		Vectus	Vectus Industries Ltd.
		SUDHAKAR	M/s Sudhakar irrigation system (P) Ltd., Hyderabad
119	PVC Perforated Pipes	Akash Enterprises	Akash Enterprises
		Rex Polyextrusion	Rex Polyextrusion Ltd.
		Supreme	Supreme industries.
		Zenplas Pipes	Zenplas Pipes Pvt ltd.
		Armstrong	Armstrong world Industries

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

Sl. No.	Material Description	Brand	Makes *
120	PVC flooring	Ger flor	Ger flor flooring
		LG Hausys	LG Hausys
121	PVDC coating	Akzonoble	Akzonoble Coating Ltd.
		Valspar	Valspar India Coating Corporation Ltd.
122	PU Coating (UV resistant Liquid Applied coating)	BASF	BASF
		Fosroc	Fosroc India
		Pidilite	Pidilite industries
		PU Roof Koat	Berger Paints Ltd
		SIKA	SIKA India
		Smart care	Asian paints
123	PU Enamel Metallic Paints on MS Structure & Epoxy paints (Premium Quality)	Akzonobel	Akzonobel
		Asian paints	Asian paints
		Berger	Berger paints India Ltd.
		MRF	MRF paints
		SKK	SKK ltd
		SUNANDA	M/s Sunanda Specialty coatings Pvt. Ltd., Mumbai
124	Raised / Cavity flooring	Access Floor systems	Access Floor Systems
		Tate	Tate
		Uni floor	Uni floor India
		Unitile	Unitile India
		Zt floor	Zt floor Pvt.,Ltd
125	RCC Pipes	Indian Hume Pipes	Indian Hume Pipe Ltd.,
		Jain & Co	Jain spun pipes Co.,
		Lakahmi Sood & Sood	Lakshmi Sood & Sood Pipa Co.
		Madurai spun pipe	Madura spun pipe company
		Vishnu	Vishnu Spun Pipes.
		DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
	Ready mix cement	Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
126	plaster	Gyproc plasters	Saint Gobain Gyproc India
		Ramco super plaster melamine	Ramco super plaster melamine
		Read Plast	Ultratech cements Ltd
		Ultra tech	Ultra tech Cement Ltd
127	Red Oxide Zinc Chromate primer	Berger	Berger Paints
		Dulex	ICI dulex
		High performance yellow metal primer	Asian Paint
		Nerolac	Nerolac
		Nippon	Nippon
		SURFA	M/s Surfa Coats (India) Pvt., Ltd., Bangalore
128	Reflective glass	Asahi	Asahi India Glass Ltd.
		Glaverbel	Glaverbel India
		Modifloat	Gujarat Guardian Ltd.
		Pilkinton	Pilkinton India
		Saint Gobain	Saint Gobain India Pvt. Ltd.
		Gold Plus	M/s Gold Plus Glass Industry Ltd., New Delhi
		Guardian Sun Guard	M/s Gujarat Guardian Ltd., Gujarat
		GUARDIAN SUNGUARD	M/s Gujarat Guardian Ltd.
		ACC	ACC Cements Ltd
		A B Dinesh	A B Dinesh Concrete India Pvt., Ltd.

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

Sl. No.	Material Description	Brand	Makes *
129	RMC plants(Ready Mix Concrete)	Aparna	Aparna Ready Mix concrete
		Lafarge	Lafarge India Pvt. Ltd.
		NUVOCO	Nuvoco Vistas Corporation Ltd.
		RB Ready Mix	RB Ready Mix
		RDC	RDC Concrete (India) Pvt.Ltd.
		RMC (India)	RMC (India) Pvt. Ltd.
		Ultra Tech	Ultra Tech Cement Ltd
		Sarvani Industries Pvt. Ltd.,	M/s Sarvani Industries Pvt. Ltd., Guntur Plants at Autonagar, Gajuwaka&Atchutapuram @ Visakhapatnam. Plants at at – AnkireddyPalem, Kolanukonda @ Guntur
		JK Concrete	M/s JK Ready Mix concrete, Visakhapatnam
130	Rockwool/Glass wool insulation	Liyod Insulation	Liyod Insulation Ltd.
		Supreme	Supreme Industries Ltd.
		Twiga fiber	Twiga fiber glass ltd
131	Sandwich PUF panelled roofing sheets	Advent	Advent concrete vision
		BASF	BASF
		Danapalan	Danapal Light architecture
		Essar	Essar Group.
		Fosroc	Fosroc
		GE Plastic	GE Silicones
		GE Plastic	GE Silicones
		JINDAL MECTEC/ JINDAL	Mectec Pvt Ltd
		LEXAN	LEXAN Ltd
		Liyod Insulation	Liyod Insulation (India) ltd
		Lloyd Insulation	Lloyd insulation (India) Ltd
		Pidilite	Pidilite Industries ltd
		Smart care	Asian paints
		Supreme	Supreme ltd
132	Sensor based Auto flush systems	AOS System	AOS System
		Grohe	Grohe
		Hindware	HSIL Ltd
		Jaquar	Jaquar Group
		Kochier	Kochier
		Parryware	Parryware Sanitary ware
		TOTO	TOTO Ltd.
133	SFRC Cover and grating	Nu-TEC	Nu-Tech concrete products (P) Lld.,
		KK	KK Manhole and gratings Co Pvt Ltd.,
		Kutty	Kutty Industries
134	Shear Stud/ Connector	KOCO	KOSTER & CO
135	Silicon coating	BASF	BASF India Ltd.
		Dow Corning	Dow corning Indd
		GE	GE Silicones
		Wacker	Wacker silicones
136	Silicon Gaskets	Sree Geurev	Sree Gaurav Rubber products
137	Solar studs/ Median markers	3M	3M Science
		Avery Dennison	Avery Donnison India Pvt Ltd.
		Nikkalite	Nippon carbide Industires (USA)
138	Spider patch fittings for structural	Dorma	Dormakaba
		hafele	Hafele Ltd.
		Kich	Kich india

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

Sl. No.	Material Description	Brand	Makes *
	glazing	Ozone	Ozone Ltd.
		Sevax	Saint Gobain Glass India Ltd
139	Spray applied Readymade plaster/ Gypsum plaster	Buildon	Buildon
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Gyproc cute 100	Gyproc India.
		Ultratech	Ultratech cement Ltd.
140	Spun cast iron fittings	Neco	JayaSwal Neco Ltd
		Kartar	Kartar valves private Ltd. ,
		Electrosteel	Electrosteel
		Kapilansh Centrifugal	Kapilansh Dhatu Udyoo (P)Ltd.
		SKF brand	SINGHALIRON FOUNOARY Pvt. Ltd.
141	Spun cast iron covers & gratings	Jagannath	Sri Jaqannath iron Foundry Pvt. Ltd
		Kapilansh Centrifugal	Kapilansh Dhatu Udyoo(P)Ltd.
		Neco	Jayaswal Neco Ltd
		SKF brand	SINGHALIRON FOUNOARY Pvt. Ltd.,
142	Stainless Steel	Ark Product Pvt. Ltd.	Ark Product Pvt. Ltd.
		Connect	Connect Ltd.
		Jindal	JSW
		KINGSTON	KINGSTON
		Salem	SAIL
		SAIL	SAIL
		DEC (Stainless steel pipes*) *with emboss /mark "RM by JINDAL"	M/s DEC Industries Pvt., Ltd, Hyderabad
143	Stainless Steel screws	Alloy	Alloy Ltd.
		Atul	Atul fasteners Ltd.
		GKW	GKW Limited
		Helix	Helix India
		Kundan	Kundan Industries Ltd.
		Nettlefold	Nettlefold Screws
		Pooja	Pooja Steel Corporation
144	Stainless steel Butt hinges	Dorma	Dorma India Pvt. Ltd.
		Helix	Helix India
		Prayag	Prayag Polymers (P) Ltd.
		Ozone	Ozone Hardware
		DEC	M/s DEC Industries (P) Ltd., Hyderabad
		Global	M/s Aluminium Udyog
145	Stainless steel friction hinges	Earl Bihari	Earl Bihari India Pvt. Ltd.
		EBCO	EBCO
		Hetich	Hetich India
		Haffle	Haffle India Pvt. Ltd.
		ROTO	ROTO Frank Asia
		Securistyle	Securityle India Pvt. Ltd.
146	Stainless steel Bolts, washers, nuts	Atul	Atul fasteners Ltd.
		Hilti	Hilti India Pvt. Ltd.
		Kundan	Kundan Industries Ltd.
		Pooja	Pooja Steel Corporation
		DEC	M/s DEC Industries (P) Ltd., Hyderabad
		GIZA	M/s Navratan Specialty, Chemicals LLT., Ahmedabad – 380051, Gujarat
	Stainless steel pressure plate	Atul	Atul fasteners Ltd.
		Dorset	Dorset Industries Pvt.Ltd.

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

Sl. No.	Material Description	Brand	Makes *
147	screws	Kundan	Kundan Industries Ltd.
		Pooja	Pooja Steel Corporation
148	Stainless Steel Kitchen sink	CERA	M/s Cera Sanitaryware Ltd.
		Diamond	Pheonix Appliances Pvt. Ltd.
		Franke	Franke India Ltd.
		Futura	Futura Kichen Sinks India Pvt. Ltd.
		Hindware	HSIL Ltd
		Jhonson	Prision Jhonson Ltd.,
		Jindal	Centuarpolytech
		Joyna	Joyna
		Navkar	Shri Navkar Metals Ltd
		Nilkanth	Nilkant
		Nirali	Jyoti (India) Matel Industries Pvt Ltd
		Silver Shine	Blue stone sanitary Industries Pvt. Ltd.
		DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
149	Steel Windows/ Pressed steel frames	Accucel	Accura polytech Pvt Ltd.
		Madhu industries	Madhu industries, San Harvic, NCL
		NCL	NCL Industries
		San Harvic	San Harvic
		DEC(CRCA Door Frames)	M/s DEC Industries Pvt. Ltd., Hyderabad
150	Structural Steel	APL	Apollo Tubes Ltd
		JSPL	JSPL
		JSW	JSW
		SAIL	SAIL
		TISCO	TATA STEEL
		VIZAG	RINL
151	Structural sealant	Asian paints	Smart care sealant
		BASF	BASF India Ltd.
		Dow corning	Dow corning india
		Fosroc	Fosroc India
		GE	GE silicones
		STP Ltd.	Shalimar tar products
		Wacker	Wacker silicones
152	Synthetic enamel Paint	Berger	Berger Paints
		Dulex	ICI dulex Ltd
		Premium gloss enamel	Asian paint Ltd
		Nerolac	Nerolac Paints Ltd
		Nippon	Nippon Paint India Ltd.
		SURFA	M/s Surfa Coats (India) Pvt. Ltd., Bangalore
153	Synthetic Carpet tiles	Hollitex	Hoilitex carper tilas
		Standard Carpets	Standard Carpets
		TOLI	TOLI Corporation
155	Synthetic Sports Flooring	California Sports Surfaces	Deco Turf USA, Rebound ACE
		California Sports Surfaces	Plaxipave
		Kataskeves Dapedon Ltd - KDF	FlexFloor Ex
		Boytem Boya Ve Kimya San. Tic. Ltd. Sti.	Acryflex-T standard System

Sl. No.	Material Description	Brand	Makes *
156	SWR PVC Pipes& fittings	Astral	Astral poiYTECHNIK Ltd.
		Finolex	Finolex Industries Ltd .
		Flowgard	Ashirwad PVC Pipes
		Nandi	Nandi pipes Pvt., Ltd.
		Prince	Prince Pipes and fittings
		Sudhakar	Sudhakar PVC Pipes
		Supreme	Supreme Industries Ltd
		SENTINI	M/s SentiniFloPipes India Pvt. Ltd., Hyderabad
		Brila HIL Pipes	M/s HIL Ltd.
		AKG	M/s AKG Extrusion Pvt. Ltd.,
157	Tempered reflective/ clear glass	Asahi	Asahi India Glass Ltd.
		FUSO	FUSO Glass India Pvt. Ltd.
		Gurind	Gurind India
		Imapct Safety	Impact Safety glass works Pvt. Ltd.
		Modiguard	Gujarat Guardian Ltd.
		Pilkington	Pilkington India Pvt. Ltd.
		Saint Gobain	Saint Gobain India Pvt. Ltd.
		Gold Plus	M/s Gold Plus Glass Industry Ltd., New Delhi
158	Thermal Insulation treatment	Asian	Asian Paints Ltd.
		Elastospray	BASF
		Pidilite	Pidilite Industries
		Rock India Pvt. Ltd	Rock India Pvt. Ltd
		Weather Kool & Seal	Berger Paints India Ltd.
159	TMT Bars	JSW	JSW Steel Ltd.
		SAIL	Steel Authority of India Ltd.
		TISCO	TATA STEEL LTD.
		VIZAG	Rastriya Inspat Nigam Ltd.
		RADHA TMT	M/s Radha Smelters Pvt., Ltd.
160	UPVC Pipes and fittings	AKG	M/s AKG Extrusions Pvt. Ltd.,
		Astral	Astral polytechnik Ltd.
		Ashirwad	Aahirwad PVC Pipes
		Finolex	Finolex Industries Ltd.
		KSR	KSR
		Prepoly	Premier PVC Industry
		Prince	Pnnce pipes and fittings Ltd.
		Supreme	Supeme industries Ltd.
		SENTINI	M/s SentiniFloPipes India Pvt. Ltd, Hyderabad
		DEC(UGD pipes(IS 15328))	M/s DEC Industries Pvt. Ltd., Hyderabad
		Birla HIL Pipes	M/s HIL Ltd.
		SUDHAKAR	M/s Sudhakar Polymers Pvt. Ltd.
		Aluplast	Alu Alpha India
		Duroplast	Duro Plast Extrusion Pvt. Ltd.
		Encraft	Encraft India Pvt. Ltd.
		Fenesta	Fenesta DCM Shriman
		Komarling	Profile India Window Technology Pvt. Ltd.
		LG	LG India Pvt. Ltd.
		MARCOLINI	M/s Mathura Poly pack Pvt, Ltd.
		Prominance	M/s Prominance Window Systems
		Rehau	Rehau Unlimited Polymer Solutions
		Sintex	Sintex Plastic technology Ltd.

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

Sl. No.	Material Description	Brand	Makes *
161	UPVC doors, door frames and windows	Venster/ OKOTECH	Aparna Enterprises limited
		VEKA	M/s NCL Veka Ltd.
		Plast One	M/s Plast One UPVC Profiles Pvt., Ltd., Secunderabad
		DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
		RAJSHRI	M/s Rajshri Plastiwood, Pithampur, M.P.
		SIMTA ASTRIX	M/s Simta Clear Coat Pvt. Ltd., Hyderabad
162	UPVC Hardware	COAR	COAR
		DNV	DNV Global Pvt.,Ltd.
		HOPPE	HOPPE
		PULSE	LGF SYSMAC (India) Pvt.,Ltd.
163	Vitreous Commodes/ Washbasin	BATHSENSE	Asian paints(Bath division)
		CERA	CERA Sanitaryware Ltd.,
		Hindware	HSIL Ltd.
		Jaquar	Jaquar Group
		Kerovit	M/s Kajaria Ceramic limited
		Kohler	Kohler world Wide
		Parryware	ROCA Bath Pvt. Ltd.,
		Roca	ROCA Bath room products
		RAK Sanitaryware	RAK Sanitaryware
164	Vitrified paving tiles	Somany	Somany Ceramic Ltd.
		Durostone	Ever stone International
		Johnson	Johnson India
		Kajaria	Kajaria Ceramics
		PAVIT	PAVIT Ceramics Pvt. Ltd.
165	Vitrified Tiles	AGL	Asian Granite India Ltd.
		CERA	M/s CERA sanitary ware Ltd.
		Johnson	Prism Johnson Ltd.
		Kajaria	Kajaria Ceramic Ltd.
		Marbita	Marito tiles
		NITCO	NITCO Ltd.
		Oasis	M/s Oasis Vitrified Pvt.Ltd.
		RAK	RAK Ceramic India Pvt. Ltd.
		Restile	Restile Ceramic Ltd.
		Somany	Somany Ceramic Ltd.
		Varmora Granito	Varmora Granite Pvt. Ltd.
		Vitro	Aparna Enterprises limited
		NAVEEN	M/s Murudeswar Ceramics Ltd., Bangalore
166	Water Proof Plywood, Commercial ply, Fire retardant ply and Block boards / Shuttering ply	Archidply	Archid Ply Industries Ltd.
		A1 Teak	A1 teak Industries Pvt. Ltd.
		Century ply	Century Flush Doors
		Duroply	Duro Ply Industries Ltd.
		Duroplast	Duroplast
		Dura sleek	Dura sleek
		Grassim ply	Shree Ram Industries
		Green panel	Green panel Industries Ltd.
		Green Ply	Green Ply Industries Ltd.
		Jayna ply	Jain Wood Industries
		KANCHAN PLY	M/s Vidya Ply & Board Pvt. Ltd
		Kitply	Kitply Industries Ltd.
		Polyline	Polyline

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

Sl. No.	Material Description	Brand	Makes *
		AAMODA	M/s Jai Dayal Plywood Pvt. Ltd., Hyderabad
		BLACK COBRA	M/s Punjab Plywood Industries, Yamunanagr, Haryana
167	Water Proof cement paint	Asian exterior wall primer	Asisn paint
		Berger	Bergar Paints
		Cem Colour	Snowcem Paints
		ICI DULUX	ICI DULUX
		Surfa	Surfacos (India) Pvt. Ltd.
168	Water supply Valves	ARCO	Arco valves Pvt. Ltd ,
		leader	leader valves Ltd ,
		Nanda	Nanda Miller company
		Zoloto	Zoloto Industries
169	Welding rods	Advani	Advani oerlikon Ltd.
		ESAB	ESAB India Pvt. Ltd.
		ESS, BATHSENSE &	Asian Paints (Bath Division)
		Premium Range : Royale	
		HINDWare	HSIL Ltd.
		Jaquar	Jaquar Group
170	Water supply fixtures like bibcock, Shower panels	Johnson	Prism Jhonson Ltd
		Kerovit	M/s Kajaria Ceramic limited
		Kingston	Kingston brass India
		MARC	MARK Showers
		Metro	Metro sanitations Pvt. Ltd.,
		Parryware	ROCO bath roam products Pvt. Ltd,
		Prayag	Prayag polymers Pvt Ltd ,
		Seiko	Seiko Sanitations
		Watarman	Kewal brothers
171	Water proofing Compound	Accoproof	ACC cement Ltd.
		Alchemica	Alchemica Ltd.
		Ardex Endura	Ardex Endura (India) Ltd.
		Asian Paints	Asian Paints
		CICO	CICO Technologies Ltd.
		Cement Mix Plus/Advanced Latex Plus	Berger Paints India Ltd.
		Dr. Fixit	Pidilite industries
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Fosroc	Fosroc India
		Impermo	Snoweem paints
		MYK Schomburg	MYK Schomburg range of products
		Penetron	Penetron India Pvt Ltd.
		Shaliplast LW+	STP Ltd
		Sika	Sika India
		KRYTON	M/s Kryton Buildmat Co. Pvt. Ltd. Gurugram, Haryana
		DEC (SBR Latex) (Note: Subject to statutory approvals)	M/s DEC Industries Pvt. Ltd., Hyderabad
		SUNANDA	M/s Sunanda Specialty coatings Pvt. Ltd., Mumbai
		Ardex Endura	Ardex Endura Ltd.
		BASF	BASF India Ltd.

Sl. No.	Material Description	Brand	Makes *
172	Water stops	Dr. Fixit	Pidilite industries
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Hydroswell	Sika India
		Hydrotite	Sika India
		KRYTON	M/s Kryton Buildmat Co. Pvt. Ltd. Gurugram, Haryana
171	Water proofing materials/ GP Grouts	Asian paints	Smart care SC GP grout grey
		BASF	BASF
		Care	Care
		Ferrous crete	Ferrous Crete (India) Pvt Ltd
		Home shield Super grout	Berger Paints Ltd.
		Pidilite	Pidilite Industries
		SIKA	SIKA India
		KRYTON	M/s Kryton Buildmat Co. Pvt. Ltd. Gurugram, Haryana
		DEC (Non Shrink grout) (Note: Subject to statutory approvals)	M/s DEC Industries Pvt. Ltd., Hyderabad
173	Weather silicon make and grade	Down corning	Down corning india
		Momentive (GE)	GE silicones
174	White Cement	Birla	Birla Corporation Ltd.
		J.K.	JK Cement Ltd.
		Travancore	Travancore Cements Ltd.
175	Wood Polymer composite material for door frames and shutters, plain/pre laminated boards for wall linings etc.	Alstone	Alstone Industries Pvt., Ltd., Jaipur, Rajasthan.
		Century	M/s Century Ply Boards (I) Limited
		Ecoste	Ecoste wood polymer composite, Delhi.
		Echon	Kumar Arch Tech, Pvt.Ltd., Rajasthan.
		Green ply	Greenply Industries Limited
		Qute Rajasree	Qute Extractions Pvt.Ltd., Chennai. Rajeswari Products Pvt.,Ltd., Madhya Pradesh.
176	Wooden Flush door shutters	Archiply	Archiply
		A1 Teak	A1 Teak Products Ltd.
		Century	Century Flush Doors
		Duro Flushdoors	Dura Ply industries Ltd.
		Greenlam	Greenlam Ply Industries Ltd.
		Indian Timber Products	Indian Timber Products
		Jain doors Pvt.Ltd.	Jain doors Pvt.Ltd.
		Jayna Flush Doors	Jain Wood Industries
		Kailash	Kailash Hi Tech Timber Industries India pvt. Ltd.
		KANCHAN PLY	M/s Vidya Ply & Board Pvt. Ltd
		Kenwood	Kenwood Ply & Board
		Kitply	Kitply Industries Ltd.
		Mayur	Mayur Ply industries
		MP Ply wood products	MP Wood products
		National plywood	National plywood
		Raavella door	Raavella Industries (P) Ltd.
		Shakthi	Shree Shakthi Modern Flush doors
		Swatic ply	Swatic ply
		Vidya ply	Vidya ply

Sl. No.	Material Description	Brand	Makes *
		AAMODA	M/s Jai Dayal Plywood Pvt. Ltd., Hyderabad
		BLACK COBRA	M/s Punjab Plywood Industries, Yamunanagar, Haryana
		DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
177	Precast Concrete Manhole covers and Frame	DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
178	HD PE pipes for water supply	DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
179	Pre Painted Galvanized iron / Steel Doors & Windows	DEC	M/s DEC Industries Pvt. Ltd., Hyderabad
		APL APOLLO CHAUKHAT	M/s APL Appllo Tubes Ltd.
180	WPC Doors	RAJSHRI	M/s Rajshri Plastiwood, Pithampur, M.P.
		DEC	M/s DEC Industries (P) Ltd., Hyderabad
		GIZA	M/s Navratan Specialty, Chemicals LLT., Ahmedabad – 380051, Gujarat
181	WPC Frames	DEC	M/s DEC Industries (P) Ltd., Hyderabad
		GIZA	M/s Navratan Specialty, Chemicals LLT., Ahmedabad – 380051, Gujarat
182	CP Bath Fittings & Accessories	Ess Ess “ap Royale” and Bathsense	M/s Asian Limited (Bath Division)
		CORONET	M/s Mohan Metal Industries
183	IoT based building Management System (S.T. Open Protocols)	WIS Spaces	M/s Wenalytics IoT Solutions Pvt. Ltd.
184	CC Kerb Stones	CEMTECH	M/s Cemtech Tiles
		DEC	M/s DEC Industries (P) Ltd.
185	HPL Sheets / Laminates	ALUTECH	M/s Alutech Industries, New Delhi
		VIRGO	M/s Virgo Laminates Ltd., Chandigarh
186	Stainless Steel Door Handles	DEC	M/s DEC Industries (P) Ltd., Hyderabad
187	Stainless Steel Aldrop	DEC	M/s DEC Industries (P) Ltd., Hyderabad
188	Tower Bolts	Global	M/s Aluminium Udyog
189	Door Handles	Global	M/s Aluminium Udyog
	New Products		
190	Super Plasticizers (Retarders)	AC-MENT -BV 430 A3	Apple Chemie (I) Pvt Ltd.
191	APCP Based High performance Hyper Plasticizers for self compacting concrete with Higher slump Retention	Visco Flux 5507/6073	Apple Chemie (I) Pvt Ltd.
192	Pentratave BI-Polar Corrosion Inhibiting Admixture	AC-Corroguard	Apple Chemie (I) Pvt Ltd.
193	Micro Silica Additives (Pozzolan Material)	AC- Microsil-Si9+	Apple Chemie (I) Pvt Ltd.
194	Crystal Line water proofing admixture (PRAH Based)	AC- Crystacrete	Apple Chemie (I) Pvt Ltd.
195	Curing compounds	AC- Cure R- (M)	Apple Chemie (I) Pvt Ltd

Sl. No.	Material Description	Brand	Makes *
196	PU Sealant	AC- Proseal 400	Apple Chemie (I) Pvt Ltd
197	Coal Tar Epoxy coating	AC- DUR-CT(S)	Apple Chemie (I) Pvt Ltd
198	Ploy Urethane water proofing	AC-1K-PU	Apple Chemie (I) Pvt Ltd
199	Wireless Building Management System	Protech	M/s Protech Technologies

Note:

The Makes / Brands for the materials approved at a later date in addition to above list by the competent authority during the progress of work can also be used.

If any new brands of material which are in the approved list and not time tested previously shall be got tested by the Engineer-in-charge personally from the approved reputed laboratories before allowing such products using in the work. The testing charges shall be borne by the agencies only

SCHEDULE OF QUANTITIES

SCHEDULE OF QUANTITY

Name of work: - Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring along with supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.

Item No.	Description	Quantity	Unit	Rate	Amount
1.	Providing and laying polymer modified cementitious repair mortar of snapcrete Geo or equivalent for repair, levelling and surface correction of existing concrete base having undulations, cracks, depressions and other surface defects, including preparation of existing concrete surface by cleaning, removal of loose particles, making the surface suitable for bonding, mixing and application of repair mortar as per manufacturer's specifications, finishing to the required level and surface finish, including all materials, labour, tools and tackles, complete as directed by the Engineer-in-Charge.	sqm	120	3725.10	447012
2.	Removing existing fixed steel basketball post including cutting at ground level, dismantling and disposal of dismantled material to the designated location, filling the void with cement concrete 1:1½:3 (1 cement : 1½ coarse sand (Zone-III) : 3 graded stone aggregate 20 mm nominal size), finished flush with the surrounding surface, complete as per the direction of the Engineer-in-Charge.	each	2	1506.15	3012
3	Supply and installation of ITF certified customized 7 layers acrylic system. The flooring should be application as first layer of primer (100% acrylic latex-based emulsion to improve bond of acrylic court system to the existing surface), second layer of acrylic Resurfacer (Filling and smoothing concrete surfaces). And also fills the surface chips, voids and conceals repairs while providing a smooth surface for color coating, third and fourth layer of Precoat (Quartz filled 100% acrylic latex based textured tennis coat) and Fifth layer of Topcoat (100% acrylic latex polymer) & colour coat for the finished surface to protect from UV. On top of these 7 layers, the line marking should be done with Overline	842	Sqm	1628.80	1371450

	paint (100% acrylic latex based high hiding line paints).				
4.	Providing, supplying, installing, testing and commissioning of heavy-duty movable basketball backstop unit conforming to international standards, comprising fabricated structural steel base frame with vertical supports, 3.25 m projection arms, 18–20 mm thick American system tempered acrylic see-through backboards with reinforcement frames, heavy-duty breakaway (dunk) rings, nylon nets, MS counterweights, heavy-duty Rexello wheels for easy movement, including all connecting members, anchor bolts, fasteners, protective coating, fixing accessories and allied works, complete as required.	Pair	1	8,25,028.30	825028
5.	Providing, supplying, installing, testing and commissioning of electronic display Score board for basket ball as per the standards., etc complete as required.	each	1	76,135.15	76135
	GRAND TOTAL				27,22,637/-

PART – D

FINANCIALBID

B L A N K

 सत्यमेव जयते	GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT	 CPWD
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Name of Work: Renovation and repairs of existing Basketball Court by Laying Synthetic Acrylic Sports Flooring and Providing movable Basketball back boards at IIT Tirupati Campus, Tirupati, Andhra Pradesh.

FINANCIAL BID

Name of the Contractor					
Sl. No.	Description of component	Estimated cost put to tender	Percentage above or below the ECPT	% in Figures	Total Cost
1	Renovation and repairs of existing 01 nos Basketball Court by Laying Synthetic Acrylic Sports Flooring alongwith supplying and installation of 02 nos backstop Unit at IIT Tirupati Campus, Tirupati, Andhra Pradesh.	27,22,637/-			
	Grand Total	27,22,637/-			

Important Note:

1. The tenderer is required to quote a single consolidated Percentage only above / below / at par over the Estimated Cost to cover all the rates of all the items. This column should not be left blank, otherwise the tender shall be treated as INVALID.
2. The Percentage shall be typed only in figures up to 2 (two) places of decimal along with algebraic sign.
3. The tenderer shall enable the macros before entering the figures, to see the quoted percentage and amount in words.
4. If the Percentage quoted both in words and figures are not clear, or if the rate is not quoted in Percentage, the offer will be treated as INVALID.

**Executive Engineer & Senior Manager (C) ,
Tirupati Project Division -II,
CPWD, Tirupati**

Correction-NIL Insertion-NIL

Omission -NIL Over writing-NIL

AE(C)

AE(P)

