



**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
OFFICE OF THE ASSISTANT ENGINEER
HCSD.I/4,CPWD,SVP NPA CAMPUS
SHIVARAMPALLY,HYDERABAD-500052
Ph.No.040-24015305, Email: ahcsd4@gmail.com**

NIT No: 25/2026-27/HYD-I/Hyderabad/4

Name of work: Supply and fixing of Gym flooring at Ground Floor in DJC Bldg in Site-B of SVP NPA Hyderabad.

NIT Amount: Rs. 5,52,128/-

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Certified that this N.I.T. contains **82 (Eighty Two)** pages only.

Notice Inviting tender approved for **Rs. 5,52,128/- (Rupees Five Lakhs Fifty Two Thousand One Hundred and Twenty Eight Only)**

ASSISTANT EXECUTIVE ENGINEER
HCSD-I/4, CPWD, Hyderabad

PART - A

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF BID DOCUMENT

(Applicable to Inviting open bids)

The ASSISTANT ENGINEER, HCSD.I/4, CPWD, Hyderabad, on behalf of President of India invites online Percentage rate bids from approved and eligible contractors of CPWD for the following work(s):

Sl.No.	Description	Details
1	NIT No.	25/2026-27/HYD-I/Hyderabad/4
2	Name of Work and Location	Supply and fixing of Gym flooring at Ground Floor in DJC Bldg in Site-B of SVP NPA Hyderabad.
3	Estimated Cost put to bid	Rs. 5,52,128/-
4	Earnest money	Rs. 11,043/-
5	Stipulated Period of completion of work	20 Days
6	Last date and time of online submission of bid.	Up to 15:00 Hours on 22/07/2026
7	Time & date of online opening of documents	15:30 Hours on 22/07/2026
8	Time & date of opening of Online Financial Bids	15:30 Hours on 22/07/2026
1.	The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.	
2.	Information and Instructions for bidders posted on website shall form part of bid document.	
3.	The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website https://etender.cpwd.gov.in 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 Receipt or/and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer, Hyderabad Central Division-I, CPWD, Hyderabad , receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD and other documents as specified	

AEE

I - Nil
O - Nil
C - Nil

5. Those contractors not registered on the website mentioned above, 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 in the prescribed column(s) meant for quoting 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. SC/ST contractors enlisted under class V category are exempted from processing fee payable to ITI.
11. **In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall be entertained**

Receipt of deposition of Original EMD

(Receipt No. _____ date _____)

1. Name of work : **Supply and fixing of Gym flooring at Ground Floor in DJC Bldg in Site-B of SVP NPA Hyderabad.**
2. NIT No. : **25/2026-27/HYD-I/Hyderabad/4**
3. Estimated Cost : **Rs. 5,52,128/-**
4. Amount of Earnest Money Deposit : **Rs. 11,043/-**
5. Last date of submission of bid : **Up to 15:30 Hours on 22/07/2026**

1. Name of the contractor :
2. Form of EMD :
3. Amount of Earnest Money Deposit :
4. Date of submission of EMD :

EMD receiving Officer (EE / AE(P) / AE / AAO)

Signature : Name :

Designation : Office Stamp :

(# to be filled by EMD receiving EE/DDH)

1. The EE/Engineer in Charge/DDH of any divisions/projects of CPWD or any other officer designated by CPWD Directorate from time to time, are authorized to receive the original EMD for their tenders or tenders of any division/projects.
2. The Authority receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency in a given format uploaded by the tender inviting authority. The receipt can also be issued by any subordinate gazette authority as authorized by the EE/Engineer in Charge/DDH.
3. The Authority receiving original EMD shall also intimate tender inviting Authority about deposition of EMD by the agency by email / fax / telephonically.
4. The Original EMD receiving Executive Engineer shall release the EMD to unsuccessful bidders after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier, after verification from the e-tendering portal website (www.tenderwizard.com>tender free view>advance search>awarded tenders) that the particular contractor is not L-1 tenderer and work is awarded.
5. The tender inviting authority will call for original EMD of the L-1 tendered from EMD receiving authority immediately.

List of Documents to be scanned and uploaded within the period of bid submission:

- i) Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD
- ii) Enlistment Order of the Contractor
- iii) **GST registration certificate of the state in which the work is to be taken up, if already obtained by the bidder.**

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

"If work is awarded to me, I/we shall obtain GST registration Certificate **of the State, in which work is to be taken up**, 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 a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.**

- iv) **Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer (including NIT issuing EE/AE), CPWD.**

ASSISTANT EXECUTIVE ENGINEER
HCSD.I/4, CPWD, Hyderabad
For & on behalf of President of India

AEE

I - Nil
O - Nil
C - Nil

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER CPWD-6 FOR e-TENDERING**

1. Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of CPWD for the work of **Supply and fixing of Gym flooring at Ground Floor in DJC Bldg in Site-B of SVP NPA Hyderabad..**
 The enlistment of the contractors should be valid on the last date of submission of bids.
 In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.
 The work is estimated to cost **Rs. 5,52,128/-**. This estimate, however, is given merely as a rough guide.
 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.
 For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicates the estimated cost of each component separately. The eligibility of bidder will correspond to the combined estimated cost of different components put to bid.
 Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority.
2. Agreement shall be drawn with the successful bidder on prescribed Form No. CPWD - 7 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement. **The Percentage rate quoted by the tenderer shall be firm and inclusive of GST & all other applicable taxes, duties, cess, levies, Octroi etc. in respect of this contract and Government shall not entertain any claim whatsoever in this respect.**
3. The time allowed for carrying out the work will be **20 Days** from the date of start as defined in schedule „F“ or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. (i) **The site for the work is available.**
 (ii) **The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of the work.**
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 from website <https://etender.cpwd.gov.in>. or www.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

8. ~~When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.~~

9. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **Executive Engineer, HCD-I, CPWD, Hyderabad**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. **The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, 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 (enclosed) uploaded by tender inviting EE in the NIT.**

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

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority-

Online bid documents submitted by intending bidders shall be opened only of those bidders, **whose Original EMD deposited with any division office of CPWD** and other documents scanned and uploaded are found in order.

9A The contractors registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee any time.

The bid submitted shall be opened at 15:00 Hours on 22/07/2026.

10. The bid submitted shall become invalid if:

- (i) The bidder is found ineligible.
- (ii) **The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.**
- (iii) **The bidder does not upload scanned copies of all the documents stipulated in the bid document.**
- (iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.
- (v) 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.

AEE

I - Nil
O - Nil
C - Nil

11. The contractor whose bid is accepted, will be required to furnish performance guarantee of **5% (Five Percent)** of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs.10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank / Demand Draft of any scheduled bank / Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. **Performance Guarantee shall remain valid for a minimum period of sixty days beyond the date of completion of all contractual obligations as per GCC 2023 Maintenance works, modified and amended up to previous day of last date of submission of bid..** 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.
12. **The description of the work is as follows:**
- 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 bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
15. 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 bidder shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of

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O - Nil
C - Nil

contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. 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 previous 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.
18. The **bids** for the **work** 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 tender or makes any modifications in the terms & conditions of the tender which is not acceptable to the department within 20 Days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to suspend the bidder for one year and they shall not be eligible to bid for CPWD tenders from date of issue of suspension order, 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 modifications in the terms & conditions of the tender which is not acceptable to the department within 20 Days after last date 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) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work

If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidder shall not be allowed to participate in the rebidding process of the work.

19. 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 20 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.

20. For Composite Bids

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I - Nil
O - Nil
C - Nil

The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.

The bid document will include following three components:

Part A:- CPWD-6, **CPWD-7** including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2014 as amended/modified up to **GCC 2023 Maintenance works, modified and amended up to previous day of last date of submission of bid.**

Part B:- General / specific conditions, specifications and schedule of quantities applicable to major component of the work.

Part C:- Schedule A to F for minor component of the work. (competent authority under clause 2 and clause 5 as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.

The bidders must associate himself, with agencies of the appropriate class eligible to bid for each of the minor component individually.

The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.

After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component(s). EE of major component will operate **Part A** and **Part B** of the agreement. EE/DDH in charge of minor component(s) shall operate **Part C** along with **Part A** of the agreement.

Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.

Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

The main contractor has to associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of minor component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of minor component(s).

In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of minor component(s) / specialized components(s).

The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

The main contractor has to enter into MoU with agency(s) associated by him for execution of minor component(s) / specialized components(s). Copy of such MoU shall be submitted to EE/DDH in charge of each minor component as well as to EE in charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.

AEE

I - Nil
O - Nil
C - Nil

Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor.

A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.

- 20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

ASSISTANT EXECUTIVE ENGINEER
HCSD.I/4, CPWD, Hyderabad
For & on behalf of President of India

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State	: TELANGANA	Circle	Hyderabad Central Circle-I, CPWD, Hyderabad
Branch	: B & R	Division	HYD-I, CPWD, Hyderabad
Sub Division	: HCSD-I/4, CPWD, Hyd.	Zone	: SZ-II/CPWD/HYDERABAD

Percentage Rate Tender & Contract for Works

(A) Tender for the work of: **Supply and fixing of Gym flooring at Ground Floor in DJC Bldg in Site-B of SVP NPA Hyderabad.**

i) To be uploaded by **15:00** hours on **22/07/2026** to / upload at **<https://etender.cpwd.gov.in>**.

ii) To be opened in presence of tenderes who may be present at **15:30** hours on **22/07/2026** in the office of **the ASSISTANT EXECUTVE ENGINEER, HCSD.I/4, CPWD, Hyderabad.**

AEE

I - Nil
O - Nil
C - Nil

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the bid document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule „F“ viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

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

A sum of **Rs.11,043/-** is hereby forwarded in cash / Receipt Treasury Challan/ Deposit at call receipt of a Scheduled Bank / fixed deposit receipt of scheduled bank / demand draft of a scheduled bank / Bank Guarantee issued by a scheduled bank as earnest money.

A copy of earnest money in receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank is scanned and uploaded (**strike out as the case may be**). 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 the work as specified, I/we agree that President of India or his successors in office shall without prejudice to any other right or remedy to available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/ We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

I / We 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 & integrity of the State.

Dated :
Witness :

Signature of Contractor
Postal Address

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)

(c)

For & on behalf of the President of India

Signatures : _____

Dated :

Designation : _____

15
SCHEDULES

SCHEDULE „A

Schedule of quantities (as per PWD-3) (Enclosed)

SCHEDULE „D

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

SCHEDULE „E

Reference to General : **GCC 2023 Maintenance works, modified and amended up to previous day of last date of submission of bid.**

Conditions of contract

Name of work: **Supply and fixing of Gym flooring at Ground Floor in DJC Bldg in Site-B of SVP NPA Hyderabad.**

Estimated Cost of work : **Rs. 5,52,128/-**

(i) Earnest money : **Rs. 11,043/-**

(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 Deposit : 2.5% of the tendered value.

SCHEDULE „F

GENERAL RULES & DIRECTIONS:

Officer inviting tender : ASSISTANT Ex., ENGINEER, HCSD.I/4, CPWD, Hyderabad

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3 : (see below)

Definitions:

2 (v) Engineer-in-Charge : ASSISTANT Ex., ENGINEER, HCSD.I/4, CPWD, Hyderabad.

2(viii) Accepting Authority : ASSISTANT Ex., ENGINEER, HCSD.I/4, CPWD, Hyderabad

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

2(xi) Standard Schedule of Rates : **DSR 2023 adjusted to Cost Index of 118 with upto date correction slips**

AEE

I - Nil
O - Nil
C - Nil

- 2(xii) Department : Central Public Works Department
- 9(ii) Standard CPWD contract Form : CPWD form - 7 & **GCC 2023 Maintenance works, modified and amended up to previous day of last date of submission of bid.**

Clause 1		
(i) Time allowed for submission of Performance Guarantee, programme chart (Time and progress)and applicable labour licenses, registration with EPFO, ESIC and BOCW welfare board or proof of applying there of from the date of issue of letter of acceptance	:	7 days
(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above	:	3 days
Clause 2		
Authority for fixing Compensation under Clause-2	:	Chief Engineer-Hyderabad, CPWD, Hyderabad or successor thereof.
Clause 2A		
Whether clause 2 / clause 2A shall be applicable	:	
Clause 5		
Number of days from the date of issue of the letter of acceptance for reckoning date of start	:	20 Days or date of handing over the site whichever is later.

Mile stone(s) as per table given below:

Sl.No.	Description of Milestone (Financial)	Time allowed in days (from date of start)	Amount to be with held in case of non achievement of milestone
1	1/8TH of Bided Amount.		In the event of not achieving the necessary progress as assessed from the running payments, 1% of the bided value of work will be withheld for failure of each milestone
2	3/8TH of Bided Amount.		
3	3/4TH of Bided Amount.		
4	Full Bided Amount.		

Time allowed for execution of work	20 Days
Authority to decide :	
1) Extension of time	ASSISTANT EXECUTIVE ENGINEER, HCSD.I/4, CPWD, Hyderabad.
2) Shifting of date of start in case of delay in handing over of site	Executive Engineer, Hyderabad Central Division -I, CPWD, Hyderabad.

Clause 5 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		
Part B	Portions with encumbrances		
Part C	Portions dependent on work of other agencies		

Clause 5	10 Days or date of handing over the site whichever is later
Clause 6 Mode of Measurement	Computerized Measurement Book (CMB) / Electronic Measurement Book (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.3.00 Lakhs
Clause 7A Whether clause 7A shall be applicable	No
Clause 10A List of testing equipments to be provided by the contractor at site lab	Any equipment required at site as per item of execution
Clause 10B(ii) Whether Clause 10 B(ii) shall be applicable	No
Clause 10C Component of labour expressed as percent of value of work	Not applicable
Clause 10CA	Not Applicable
Materials Covered under this Clause 1. *Cement. OPC PPC 2. Steel reinforcement 3. Structural Steel *includes Cement component used in RMC brought at site from outside approved RMC plants, if any.	Not Applicable Period .
Clause 10CC Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	Not Applicable 12 months
Schedule of component of other Materials, Labour etc. for price escalation. Component of civil (except materials covered under clause 10CA) /Electrical construction: Xm..... % value of work. Component of Labour— expressed as percent of total value of work: Y... .. % Note : Xm.....% should be equal to (100) — (materials covered under clause 10CA i.e. Cement, Steel, POL and other material specified in clause 10CA + Component of Labour)	
Clause 11 Specifications to be followed for execution of work	C.P.W.D. Specifications 2019 vol.I to vol.II with up to date correction slips.
Clause 12	

Authority to decide deviation upto 1.50 times of tendered amount	Chief Engineer-Hyderabad, CPWD, Hyderabad or successor thereof.
12.2 & 12.3	
Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work	No Limit
12.5	
(i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items)	No Limit
(ii) Deviation Limit for items mentioned in earth work subhead of DSR and related items	No Limit
Clause 16 Competent Authority for deciding reduced rates	Chief Engineer-Hyderabad, CPWD, Hyderabad or successor thereof.
Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site.	T&P and machinery required at site as per site condition and as per item of execution.
Clause 19C authority to decide penalty for each default	Engineer-in-Charge
Clause 19D authority to decide penalty for each default	Engineer-in-Charge
Clause 19G authority to decide penalty for each default	Engineer-in-Charge
Clause 19K authority to decide penalty for each default	Engineer-in-Charge

Clause 25

(i) Conciliator:	: Additional Director General, Region Hyderabad or successor thereof
(ii) Arbitrator Appointing Authority	: Chief Engineer-Hyderabad or successor thereof.
(iii) Place of Arbitration	: Hyderabad

Clause 32 Requirement of Technical Representative(s) and recovery Rate

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause	
						Figures	Words
1.	Graduate Engineer Or		Project Manager cum Planning / quality / site / billing Engineer	2 Years or 5 Years	1	Rs.15,000/- per month per person	Rupees Fifteen Thousand

AEE

I - Nil
O - Nil
C - Nil

	Diploma Engineer			respectively			Only. per
							month
							per
							person

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

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

Clause 38

- i) (a) Schedule / statement for determining theoretical quantity of cement & bitumen on the basis of **DSR 2023 adjusted to Cost Index of 118 with upto date correction slips printed by C.P.W.D.**
- ii) Variations permissible on theoretical quantities:
 - (a) Cement
 - For works with estimated cost put to tender not more than Rs.25 Lakh. **3% plus / minus**
 - For works with estimated cost put to tender more than Rs.25 Lakh. **2% plus / minus.**
 - (b) Bitumen All Works **2.5% plus only & nil on minus side**
 - (c) Steel Reinforcement and structural steel sections for each diameter, section and category. **2% plus/minus**
 - (d) All other materials **Nil**

FORM OF EARNEST MONEY DEPOSIT
BANK GUARANTEE BOND

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

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

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

THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
 - (a) Fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;

OR

- (b) Fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

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

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

DATE
WITNESS

SIGNATURE OF THE BANK
SEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 90 days from last date of receipt of tender.

Form of Performance Security (Guarantee)
Bank Guarantee Bond-Format-I

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

1. We, (hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. (Rupees..... Only) on demand by the Government.
2. We, (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees..... only)
3. We, the said bank further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
4. We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in- Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We, (indicate the name of the Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We, (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.
8. This guarantee shall be valid upto unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated theday offor(indicate the name of the Bank)

(By Registered / Speed Post)

Sample letter for Acceptance of bid

No.

Dated,

To

(Name and Address of the contractor)

Subject:
 (Name of work as appearing in the tender for the work).

Dear Sir(s),

Your bid for the work mentioned above has been accepted on behalf of the President of India at your bided / negotiated bid amount of Rs.....(Rupees..... only) which is% below / above the estimated cost of Rs.....(Rupees..... only.)

1. You are requested to submit the performance guarantee Rs..... (Rupees..... only) within.....days of issue of this letter. The Performance Guarantee shall be in any of the prescribed form as provided in Clause – 1 of the General Condition of Contracts for CPWD Works and shall be valid up to
2. On receipt of prescribed performance guarantee, necessary letter to commence the work shall be issued, and site of work shall be handed over to you thereafter.
3. Please note that the time allowed for carrying out the works as entered in the bid, (.....days / weeks / months) shall be reckoned after.....days from the date of issue of this letter.

Yours faithfully,

ASSISTANT EXECUTIVE ENGINEER
 For and on behalf of President of India
 Hyderabad-I, CPWD, Hyderabad.

AEE

I - Nil
 O - Nil
 C - Nil

(By Registered / Speed Post)

Sample letter for Commencement of work

No.

Date:

To

(Name and Address of the contractor)

Subject: (Name of work as appearing in the bid for the work).

Ref: 1. Performance guarantee submitted by you vide your letter

No Datedfor above work.

2. This office letter of intent/ acceptance of your tender issued vide No.....dt.....

Dear Sir(s)

1. In continuation to the letters referred above, you are requested to attend this office to complete formal agreement within 20 Days from stipulated date of start.

You are requested to contact the ASSISTANT EXECUTIVE ENGINEER (Complete address) for taking possession of site and commencement of the work.

Yours faithfully,

ASSISTANT EXECUTIVE

ENGINEER

HCSD.I/4, CPWD, Hyderabad

For & on behalf of President of India

AEE

I - Nil

O - Nil

C - Nil

PART - B

CONDITIONS OF CONTRACT

Definitions

1. The contract means the documents forming the bid and acceptance thereof and the formal agreement executed between the competent authority on behalf of the President of India and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
2. In the Contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:
 - i. The expression **works** or **work** shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.
 - ii. The **site** shall mean the land/ or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.
 - iii. The **contractor** shall mean the individual, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
 - iv. The **President** means the President of India and his successors.
 - v. The **Engineer-in-Charge** means the Engineer Officer who shall supervise and be in-charge of the work and who shall sign the contract on behalf of the President of India as mentioned in Schedule „F“ hereunder.
 - vi. **Government** or **Government of India** shall mean the President of India.
 - vii. The terms **Director General of Works** includes Additional Director General and Chief Engineer of the Zone.
 - viii. **Accepting Authority** shall mean the authority mentioned in Schedule F
 - ix. **Excepted Risk** are risks due to riots (Other than those on account of Contractor's employees), war (Whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Government of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Government's faulty design of works.
 - x. **Market Rate** shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule „F“ to cover, all overheads and profits. **Provided that no extra overheads and profits shall be payable on the part(s) of work assigned to other agency(s) by the contractor as per terms of contract.**

- xi. **Schedules(s)** referred to in these conditions shall mean the relevant schedule(s) annexed to the bid papers or the standard Schedule of Rates of the Government mentioned in Schedule „F“ hereunder, with the amendments thereto issued up to the date of receipt of the bid.
- xii. **Department** means CPWD or any department of Government of India which invites bids on behalf of President of India as specified in Schedule „F“.
- xiii. **District Specifications** means the Specifications followed by the State Government in the area where the work is to be executed.
- xiv. **Bided value** means the value of the entire work as stipulated in the letter of award.
- xv. **Date of commencement of work:** The date of commencement of work shall be the date of start as specified in schedule „F“ or the first date of handing over of the site, whichever is later, in accordance with the phasing if any, as indicated in the tender document.
- xvi. **GST** shall mean Goods and Service Tax – Central, State and Inter State.

Scope and Performance

- 3. Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
- 4. Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
- 5. The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the bid papers. None of these documents shall be used for any purpose other than that of this contract.

Works to be carried out:

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

Sufficiency of Tender

- 7. The contractor shall be deemed to have satisfied himself before bidding as to the correctness and sufficiency of his bid for the works and of the rates and prices quoted in the Schedule of Quantities, whose rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

Discrepancies and Adjustment of Errors

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

In the case of discrepancy between the Schedule of Quantities, the Specifications and/ or the drawings, the following order of preference shall be observed :-

- i) Description of Schedule of Quantities.
- ii) Particular Specification and Special condition, if any.
- iii) Drawings.
- iv) C.P.W.D. Specifications.
- v) Indian Standard Specifications of B.I.S.

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

Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.

Signing of Contract

The Successful bid/contractor, on acceptance of his bid by the Accepting Authority, shall, within 20 Days from the stipulated date of start of the work sign the contract consisting of:

- (i) The notice inviting bid, all the documents including drawings, if any, forming the bid as issued at the time of invitation of bid and acceptance thereof together with any correspondence leading thereto.
- (ii) Standard C.P.W.D. Form as mentioned in Schedule „F“ consisting of:
 - (a) Various standard clauses with corrections up to the date stipulated in Schedule „F“ along with annexure thereto.
 - (b) C.P.W.D. Safety Code.
 - (c) Model Rules for the protection of health, sanitary arrangements for workers employed by CPWD or its contractors.
 - (d) CPWD Contractor's Labour Regulations.
 - (e) List of Acts and omissions for which fines can be imposed.
- (iii) No payment for the work done will be made unless contract is signed by the contractor.

General Rules & Directions

1. All work proposed for execution by contract will be notified in a form of invitation to e- bid pasted in public places and signed by the officer inviting bid or by publication in News papers as the case may be.

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

2. In the event of the bid being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the bid, and it must disclose that the firm is duly registered under the **Indian Partnership Act. 1932.**
3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their bid as a firm in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.
4. A. Applicable for Percentage Rate Tender only (CPWD-7)

In case of Percentage Rate Tenders, contractor shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. The tender submitted shall be treated as invalid if :-

1. The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.
2. The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender.
3. The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender.

Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.

- 4B. In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.

In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.

If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE of the circle, EE(s) in-charge of major & minor component(s) (also DDH in case Horticulture work is also included in the tender), EE(P) or EE(HQ) of the circle & the lowest contractors those have quoted equal amount of their tenders.

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

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

5. The officer inviting bid or his duly authorized assistant, will open bid in the presence of any intending contractors who may be present at the time, and will enter the amounts of the several bids in a comparative statement in a suitable form, in the event of a bid being accepted, a receipt for the earnest money forwarded therewith shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule-I In the event of a bid being rejected, the earnest money forwarded with such unaccepted bid shall thereupon be returned to the contractors remitting the same, without any interest
6. The officer inviting bids shall have the right of rejecting all or any of the bids and will not be bound to accept the lowest or any other bid.
7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgement or payment to the officer inviting bid and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting bid or a duly authorized Cashier.
8. The memorandum of work bided for and the schedule of materials to be supplied by the department and their issue-rates shall be filled and completed in the office of the officer inviting bid before the bid form is issued. If a form is issued to an intending bidder without having been so filled in and incomplete, he shall request the officer to have this done before he completes and delivers his bid.
9. **The bidders shall sign a declaration under the officials Secret Act, 1923, for maintaining secrecy of the bid documents drawings or other records connected with the work given to them. The unsuccessful bidders shall return all the drawings given to them.**
- 9A. **Use of correcting fluid, anywhere in tender document is not permitted. Such tender is liable for rejection.**
10. A) In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy.
11. In the case of any bid where unit rate of any item/items appear unrealistic, such bid will be considered as unbalanced and in case the bidder is unable to provide satisfactory explanation such a bid is liable to be disqualified and rejected.
12. A) In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word „Rs. should be written before the figure of rupees and word „P“ after the decimal figures, e.g. „Rs. 2.15P and in case of words, the word „Rupees“ should precede and the word „Paisa should be written at the end.

13. (i) The Contractor whose bid is accepted, will be required to **furnish performance guarantee of 5% (Five Percent) of the bided amount** within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form.
- (ii) The contractor whose bid is accepted, will be required to furnish by way of **security Deposit for the fulfillment of his contract, an amount equal to 2.5%** of the bided value of the work. The security Deposit will be collected by deductions from the running and final bills of the contractor at the rates mentioned above. The security amount will also be accepted in cash or in the shape of Government Securities. Fixed deposit receipt of a scheduled Bank or State Bank of India will also be accepted for this purpose provided confirmatory advice is enclosed.
14. On acceptance of the bid, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.
15. **GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.**
16. The contractor shall give a list of both gazetted and non-gazetted CPWD employees related to him.
17. The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have bided or who may and has/have bided for the same work. Failure to observe this condition would render, bids of the contractors bidding, as well as witnessing the bid, liable to summary rejection.
18. The tender for composite work includes in addition to building work all other works such as sanitary and water supply installations drainage installation, Electrical work, horticulture work, roads and paths etc. The bidder apart from being a registered contractor (B&R) of appropriate class must associate himself with agencies of appropriate class which are eligible to bid for sanitary and water supply, drainage, electrical and horticulture works in the composite bid.
19. The contractor shall submit list of works which are in hand (progress) in the following form: -

Name of work	Name and particulars of Division where work is being executed	Value of work	Position of works in progress	Remarks
1	2	3	4	5

20. **The contractor shall comply with the provisions of the Apprentices Act 1961**, and the rules and orders issued there under from time to time. If he fails to do so his failure will be a breach of the contract and the Chief Engineer/Executive Engineer may in his discretion without prejudice to any other right or remedy available in law cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

SPECIAL CONDITIONS AND PARTICULAR SPECIFICATIONS FOR CIVIL WORK**SPECIAL CONDITIONS**

- 1) The work shall be carried out as per CPWD Specifications 2019 Vol. I & II with upto date correction slips, particular specifications, structural drawings and as per instruction of Engineer-in-charge.
- 2) 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 nothing extra over and above the schedule of quantity shall be payable on this account.
- 3) 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, upto the date of receipt of tenders.
- 4) The Contractors are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of site, the means of access to the site, the constraints of space for stacking material / machinery, labour etc., constraints put by local regulations, if any, weather conditions at site, general ground / subsoil conditions etc. or any other circumstances which may affect or influence submission of their bids. The site is available for work. The contractor shall carry out survey of the work area, at his own cost, setting out the layout and fixing of alignment of the building as per architectural and structural drawings in consultation with the Engineer-in-charge and proceed further ensuring full structural continuity and integrated and monolithic construction. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge.
- 5) The Contractor shall, if required by him, before submission of the bid, inspect the drawings in the Office of the **Executive Engineer, Hyd-I, CPWD, Hyderabad**. The department shall not bear any responsibility for the lack of knowledge and also the consequences, thereof to the Contractor. The information and data shown in the drawings and mentioned in the bid documents have been furnished, in good faith, for general information and guidance only. The Engineer-in-Charge, in no case, shall be held responsible for the accuracy thereof and/or interpretations or conclusions drawn there from by the Contractor and all consequences shall be borne by the Contractor. No claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in bid document is different or in-correct otherwise or actual working drawings are at variance with the drawings available for inspection or attached to the bid document. It is presumed that the Contractor shall satisfy himself for all possible contingencies, incidental charges, wastages, bottlenecks etc. likely during execution of work and acts of coordination, which may be required between different agencies. Nothing extra shall be payable on this account.
- 6) The nomenclature of the item given in the schedule of quantities gives in general the work content but is not exhaustive i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown on the drawings and/or described in the specifications, provided that the same can be reasonably inferred there from may be several incidental works, which are not mentioned in the nomenclature of each item but

will be necessary to complete the item in all respect. All these incidental works / costs which are not mentioned in item nomenclature but are necessary to complete the item shall be deemed to have been included in the rates quoted by the contractor for various items in the schedule of quantities. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation / change in actual working drawings. Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which is incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of Engineer-in-Charge. Nothing extra shall be payable on this account.

- 7) The contractor shall give to the local body, 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 fees, taxes and charges which may be leviable on account of these operations in executing the contract. Proper temporary barricading by fencing with G.I. sheets, shall be carried out by the contractor at the start of work as per direction of Engineer-in-charge in order to physically define the boundaries of the plot for restricted entry to only those involved in the work and also to prevent any accidents, at the same time without causing any inconvenience to the traffic and the users of the handed over buildings in the adjacent plots. It shall be done by providing, erecting, maintaining temporary protective barricading of minimum 3.0 meters in height, made in panels, with each panel having MS frames / MS scaffolding pipes of suitable size and stiffness, with 24 gauge thick GI corrugated sheet or suitably stiffened plain GI sheet fixed on frames. Such panels shall be suitably connected to each other for stability with nuts and bolts, hooks, clamps etc. and fixed firmly to the ground at about 2 metres spacing, for the entire duration till completion of the work. He shall also provide and erect temporary protective barricades within the plot, if required, to prevent any accident. It shall be dismantled and taken away by the Contractor after the completion of work at his own cost with the approval of the Engineer-in-charge. Nothing extra shall be payable on this account.
- 8) The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night. In case of any accident to labours/ contractual staff the entire responsibility will rest on the part of the contractor and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.
- 9) The work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol.I & II with upto date Correction clips, additional/ Particular Specifications, Architectural/ Structural drawings and as per instructions of Engineer-in charge. Any additional item of the work, if taken up subsequently, shall also confirm to the relevant CPWD Specifications as mentioned above. Working (both Architectural and Structural) drawings will be released progressively to the contractor commensurate to the construction schedule approved by Engineer-in-charge.
- 10) The 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 scale dimensions.
- 11) In case of 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

- iii. Special conditions
 - iv. Tender drawings attached
 - v. CPWD Specifications including correction slips issued upto the last date of uploading/ submission of tender.
 - vi. General Conditions of Contract for CPWD works including correction slips issued upto the last date of uploading/submission of tender.
 - vii. Indian Standards Specifications of B.I.S.
 - viii. ASTM, BS, or other foreign origin codes mentioned in tender document.
 - ix. Manufacturer's specifications and as decided by the Engineer-in-Charge.
 - x. Sound Engineering practices or well established local construction practices.
- 12) The works to be governed by this contract shall cover delivery and transportation upto destination, safe custody at site, insurance, erection and commissioning of the E&M services of the entire work.
 - 13) The work shall be carried out in accordance with the approved Architectural structural drawings & service drawings to be issued from time to time by the Engineer-in- charge. Before commencement of any item of work the contractor shall correlate all the relevant structural drawings, Specifications etc. issued for the work and satisfy himself that the information available from there is complete and unambiguous. The figure and written dimension of the drawings shall be superseding the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in- charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information and no claim whatsoever shall be entertained by the department on this account.
 - 14) 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.
 - 15) Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account. Payment for centering, shuttering, however, if required to be done for floor heights greater than 3.5m shall be admissible at rates arrived in accordance with clause 12 of the agreement if not already specified.
 - 16) The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at suitable place. No stacking of materials or excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed. The stacking shall take place as per stacking plan. However, if any change is required, the same shall be done with the approval of Engineer-in-Charge.
 - 17) The Contractor shall bear all incidental charges for Cartage, storage and safe custody of materials, if any, issued by department as well as to those materials also arranged by the contractor.
 - 18) Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the execution of work and nothing extra shall be payable or extra cement considered in consumption on this account.

- 19) The contractor shall make his own arrangements for water and for obtaining electric connections if required and make necessary payments directly to the State Govt. departments concerned. 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 etc. shall be borne by the contractor.

Work shall normally be done in a single shift/day. However if the work is required to be executed in more than one shift in a day for meeting the time lines, the Contractor with prior approval of the Engineer-in-charge, shall have to make necessary arrangements for the same and all costs towards the same shall be deemed to have been included in the quoted rates.

20) PREVENTION OF NUISANCE AND POLLUTION CONTROL

The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties from pollutants like smoke, dust, noise. The contractor shall use such methodology and equipment so as to cause minimum environmental pollution of any kind during construction and minimum hindrance to road users and to occupants of the adjacent properties or other services running adjacent/near vicinity. The contractor shall make good at his cost and to the 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. All waste or superfluous materials shall be carried away by the contractor, without any reservation, entirely to the satisfaction of the Engineer-in-charge.

- 21) 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 nearby occupants/users of building(s), if any.

22) SECURITY AND TRAFFIC ARRANGEMENTS

In the event of any restrictions being imposed by the Security agency of Client Department / CPWD/ Hyderabad Traffic or any other local 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 him on such accounts. The loss of time on these accounts, if any, shall have to be made up by augmenting additional resources whatever required.

For the safety of all labour directly or indirectly employed in the work the contractors shall, in addition to the provision of CPWD safety code and directions of the Engineer-in-Charge, make all arrangements to provide facility as per the provision of Indian Standard Specifications (Codes) listed below & nothing extra shall be paid on this account.

i.	IS 3696 Part I	Safety Code for scaffolds and ladders.
ii.	IS 3696 Part II	Safety Code for scaffolds and ladders Part II ladders.
iii.	IS 764	Safety Code for excavation work.
iv.	IS 4138	Safety Code for working in compressed air.
v.	IS 7293	Safety Code for working with construction machinery.
vi.	IS 7969	Safety Code for storage and handling of building materials.
vii.	IS 4130	Safety code for demolition of buildings.

- 23) The contractor is required to make his own arrangements to provide huts for labourers as is acceptable to local bodies /client and nothing extra shall be paid on this account. He shall make his own arrangements for stores, field office etc. Before bidding, he shall visit the site and assess the manner in which he is able to arrange the above facilities. The Engineer-in-charge

shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained.

- 24) No payment shall be made for any damage caused by 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.
- 25) 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.
- 26) All materials obtained from contractor shall be got checked by the representative of Engineer-in-Charge on receipt of the same at site before use.
- 27) The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including all equipments, services 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 and no claim shall be admissible on this account.
- 28) 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 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 / Telangana State Govt. 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. All statutory taxes, levies, charges (including 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 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. The clause 31A of the General conditions of contract for CPWD works is not applicable to the tender. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is 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.
- 29) 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.
- 30) The contractor shall make all necessary arrangements for protecting works already executed from rains, fog or likewise extreme weather conditions and for carrying out further work,

during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account and also no claims for hindrance shall be entertained on this account.

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

32) SETTING OUT

- (i) The contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the Engineer-in-charge & proceed further. Any discrepancy between in the drawings and actual layout at site shall be immediately brought to the notice of the Engineer-in-charge. It shall be responsibility of the contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc., Nothing extra shall be payable on this account.
- (ii) The contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc to the Engineer-in-charge before commencing work. Commencement of work shall be regarded as the contractor's acceptance of such grades, lines, levels, and dimensions and no claim shall be entertained at a later date for any errors found.
- (iii) If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of the work, the contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the Engineer-in-charge. Nothing extra shall be payable on this account.
- (iv) Though the site levels are indicated in the drawings the Contractor shall ascertain and confirm the site levels with respect to benchmark from the concerned authorities. The Contractor shall protect and maintain temporary/ permanent benchmarks at the site of work throughout the execution of work. These benchmarks shall be got checked by the Engineer-in-Charge or his authorized representatives. The work at different stages shall be checked with reference to bench marks maintained for the said purpose. Nothing extra shall be payable on this account.
- (v) The approval by the Engineer-in-charge, of the setting out by the contractor, shall not relieve the Contractor of any of his responsibilities and obligation to rectify the errors/ defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.
- (vi) The contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost to the entire satisfaction of the Engineer- in-charge.
- (vii) The amount quoted by the Contractor are deemed to be inclusive of site clearance, setting out work (including marking of reference points, center lines of buildings), construction and maintenance of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, barricading, signage, labour safety, labour

welfare and labour training measures, preparatory works, working during monsoon, working at all depths, height and location etc. and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

33) TOOLS AND PLANTS

The contractor should deploy constructions equipment required for the proper and timely execution of the work. Nothing extra shall be paid on this account.

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.

34) SCAFFOLDING

Wherever required for the execution of work, all the scaffolding shall be provided and suitably fixed, by the contractor. It 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 **unless otherwise specified in the corresponding items of work**. It shall be ensured that no damage is caused to any structure due to the scaffolding.

- 35) The contractor shall do proper sequencing of the various activities by suitably staggering the activities so as to achieve early completion. The contractor is to deploy adequate equipment, machinery and labour as required for the completion of the entire work within the stipulated period as specified. Also ancillary facilities shall be provided by contractor commensurate with requirement to complete the entire work within the stipulated period. Nothing extra shall be payable on this account **unless otherwise specified in the corresponding items of work**. 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 condition 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 workshop 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.

36) ROYALTY

Royalty/Seigniorage Fee at the prevalent rates shall be deducted from the Bills payable to the Contractor, as per G.O. No. Ms.No. 67 dated 26.09.2015 issued by Industries and Commerce (M.I) Department, Government of Telangana state and issued by DM&G, Hyderabad Lr No 1086/DMF/2016 dated 22.04.2016 (copy enclosed along with tender document), or as per consequent/latest G.O. if any, issued by the Government of Telangana State, on all materials such as boulders, metals, all sizes stone aggregates, brick aggregates, coarse and fine sand, moorum, river sand/ Manufactured sand, gravels and bajri etc. collected by him for the execution of the work. The rates quoted by the contractor shall be inclusive of such Royalty and taxes etc. And nothing extra shall be payable on this account.

37) PRESERVATION AND CONSERVATION MEASURES

- (i) Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services, if any, encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. In case the same are to be removed and diverted, expenditure incurred in doing so shall be payable to the contractor. The contractor shall work out the cost, get the same approved by Engineer-in-charge before taking up actual execution. 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.
- (ii) 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 Act..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.

38) RESPONSIBILITY OF CONTRACTOR

- (i) He shall protect and indemnify the **CPWD** 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.
- (ii) The fee payable to statutory authorities for obtaining the various permanent service connections and Building Use Certificate for the building if any shall be borne by the **Client**.
- (iii) The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the **CPWD** from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department **CPWD** 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.

39) CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES/ SUB-CONTRACTORS

- (i) The contractor shall take all precautions to adhere by the environmental related restrictions imposed by any statutory body having jurisdiction over work site as well as prevent any pollution of streams, ravines, river bed and waterways. All waste or superfluous materials shall be transported by the contractor, entirely to the satisfaction of the Engineer-in-charge and disposed at designated places only. 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 claims whatsoever on account

of site constraints mentioned above or any other site constraints, lack of public transport, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated herein, shall be entertained from the contractor. Therefore, the tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

- (ii) The contractor shall cooperate with and provide the facilities to the sub-contractors and other agencies working at site for smooth execution of the work. The contractor shall indemnify the CPWD against any claim(s) arising out of any disputes. The contractor shall:
 - (a) Allow use of scaffolding, toilets, sheds etc.
 - (b) Properly co-ordinate their work with the work of other contractors.
 - (c) Provide control lines and benchmarks to his sub-contractors and the other Contractors.
 - (d) Provide electricity and water at mutually agreed rates.
 - (e) Provide hoist and crane facilities for lifting material at mutually agreed rates.
 - (f) Co-ordinate with other contractors for leaving inserts, making chases, alignment of services etc. at site.
 - (g) Adjust work schedule and site activities in consultation with the Engineer-in- Charge and other Contractors to suit the overall scheduled completion.

Resolve the disputes with other contractors/ sub-contractors amicably and the Engineer-in-charge shall not be made an intermediary or an arbitrator.
- (iii) The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. water supply, drainage, rain water harvesting, electrical, fire fighting, information technology, communication & electronics and any other services.
- (iv) Other Associated agencies may also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work 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 at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- (v) 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 off 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 in a proper coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

40) SUPERVISION OF WORK

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 work 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 as mentioned in the bid document to complete the work with quality and within stipulated time limit.

41) SPECIALIZED AGENCIES

Any specialized component of work in the project, for which expertise is lacking with the main contractor the same, shall be carried out in association with a specialized agency to be approved by the Engineer-in-charge.

42) RATES

(i) The amount quoted by the Contractor are deemed to be inclusive of site clearance, setting outwork, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers, working during monsoon or odd season, working beyond normal hours, working at all depths heights, lead, lift, levels and location and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.

(ii) **The amount quoted by the tenderer is inclusive of all taxes and levies including GST and nothing extra shall be payable.**

(iii) Ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, 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 from local bodies etc., protection works, 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 **amount** quoted by the Contractor. 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.

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. 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.

43) SAFETY MEASURES

AEE

I - Nil
O - Nil
C - Nil

- (i) **WARNING/CAUTION BOARDS:** All temporary warning / caution boards / glow signage display such as “Construction Work in Progress”, “Keep Away”, “No Parking”, Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer - in - Charge. Nothing extra shall be payable on this account.
- (ii) **SIGN BOARDS:** The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, Client/Owner, Engineer-in-charges, Structural Consultants, Department etc. besides providing space for names of other Contractors, Sub-Contractors and specialized agencies within 20 Days from issue of award letter. Nothing extra shall be payable on this account. In case of non compliance/delay in compliance in this, a penalty @ Rs. 500/- per day will be imposed which will be recovered from the immediate next R/A Bill of the Contractor.
- (iii) **Necessary protective and safety equipments such as helmet, safety shoes, gloves etc shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.**
- (iv) 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.

44) QUALITY ASSURANCE

- (i) Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work. 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. 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.
- (ii) The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by

Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

- (iii) In addition to the supervision of work, CPWD Engineers/Client department officials 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.
- (iv) The contractor shall at his own cost submit samples of all materials sufficiently in advance and obtain approval of Engineer-in-Charge. The materials to be used in actual execution of the work shall strictly conform to the quality of samples approved by the Engineer-in-Charge and nothing extra shall be paid on this account. The acceptance of any sample or material on inspection shall not be a bar to its subsequent rejection, if found defective.
- (v) All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-In-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per suggested list of brand names given in the tender document / particular specifications for approval of Engineer-In-Charge. For all other items, materials and fittings of ISI Marked shall be used with the approval of Engineer-In-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of Engineer-In-Charge.
- (vi) The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contractor for non-availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge. All materials whether obtained from Govt. stores or otherwise shall be got checked by the Engineer-in-Charge or his authorized supervisory staff on receipt of the same at site before use.

- (vii) The contractor has to establish field laboratory at site including all necessary equipment for field tests as given in Schedule „F“. All the relevant and applicable standards and specifications shall be made available by the contractor at his cost in the field laboratory. The contractor shall designate one of his technical representatives as Quality Assurance Engineer, who shall be responsible for carrying out all mandatory field/laboratory tests. The contractor shall also provide adequate supporting staff at his cost for carrying out field tests, packaging and forwarding of samples for outside laboratory tests and for maintaining test records.
- (viii) The tests, as necessary and where no field laboratory facilities are available, shall be conducted in the laboratory approved by the Engineer-in- Charge. For materials for which field testing equipment is established at site, for those materials 90% of total tests shall be done at the laboratory established at site by contractor and remaining in the reputed laboratories approved by Engineer-in-charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.
- (ix) All the registers of tests carried out at Construction Site or in outside laboratories and all material at site (MAS) registers including cement register shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge. All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by JE/AE/AEE/EE. Contractor shall be responsible for safe custody of all the registers.
- (x) 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.
- (xi) 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.
- (xii) **The cost of test required for all the materials shall be borne by the Contractor, other than those specifically elsewhere mentioned in the NIT.**

However the cost of tests for the following materials/tests shall be borne by the Contractor if the test results do not conform to CPWD Specifications /relevant BIS codes or by the Department if the test results conform to CPWD Specifications/relevant BIS codes.

- 1) Fire check/Retardant Doors,
- 2) Wind Pressure Test in structural glazing work.
- 3) Tests like X-Ray, Dye-Penetration for structural welding.

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I - Nil
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- 4) Ascertaining the classification of Wood/Timber.
 5) **Ultrasonic Pulse Velocity Method of test for RCC.**

In case of concrete and reinforced concrete work also the contractor shall be required to make arrangement for carrying out compression strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same, proper curing and carriage upto the laboratory where the test is to be performed.

- (xiii) All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.
- (xiv) Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should confirm to bylaws and municipal body / corporation where CPWD Specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body/Corporation authorities wherever required at his own cost.
- (xv) The contractor shall have to execute guarantee bonds in respect of water proofing works, Aluminium doors windows & ventilators work, Curtain/Structural Glazing works as per Performa enclosed.
- (xvi) 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 / fire fighting equipments, fire sprinklers etc. and also testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.

45) SUBMISSION AND DOCUMENTATION

- (i) The contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc under various labour laws and other regulations applicable to the works, at his site office. He should also keep at site at least one set of latest version of BIS Codes and other relevant codes at site and produce the same if asked for by Engineer-In-charge. In case of non-compliance, these codes will be purchased from the market and actual cost of purchase will be recovered from the next RA Bill of the contractor.
- (ii) The contractor shall make available four (04) sets of completed drawings, “As Built Drawings” along with literatures, manuals, warranty certificates etc. of various installed fittings, fixtures and equipment for the completed projects. This shall be the prerequisite for payment of final bill.
- (iii) The Contractor shall make available three (03) sets of all drawings of internal and external services i.e. Water Supply, Sanitary line and Drainage lines. This shall be the prerequisite for payment of final bill. These drawings shall have the following information:

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 C - Nil

- (a) Run off for all piping and their diameters including soil, waste pipes and vertical stacks.
- (b) Ground and invert level of all drainage pipes together with locations of all manholes and connections, upto outfall.
- (c) Run off for all water supply lines with diameters location of control valves, access panels etc.
- (iv) The contractor will submit computerized measurement sheet for the work carried out by him for making payment as per Clause – 6A of the CPWD General Conditions of Contract 2014 (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.
- (v) To avoid delay, contractor should submit all samples well in advance so as to give timely orders for procurement.

46) **PROJECT PROGRAM CHART:**

The Contractor shall prepare an integrated program chart within 15 **(Fifteen) days** of issue of acceptance letter including civil as well as E & M activities for the execution of work, Showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the program within the stipulated period and submit the same for approval of the Engineer-In-Charge within fifteen days of the award of the work. These shall be submitted by the contractor through electronic media besides forwarding hard copies of the same. The integrated program chart so submitted should not have any discrepancy with the physical milestones attached in the contract agreement.

- (i) Apart from the above integrated program chart, the contractor shall be required to submit fortnightly progress report of the work in a computerized form on 1st and 16th of every month. The progress report shall contain the following, apart from whatever else may be required as specified above:
- (ii) Construction schedule of the various components of the work through a bar chart for the next two fortnights (or as may be specified), showing the micro-milestone/milestones, targeted tasks (including material and labour requirement) and upto date progress. Digital photographs showing all the part of construction site along with video of executions of different items whenever required in soft copy has to be submitted in every fortnightly progress report.
- (iii) Progress chart of the various components of the work that are planned and achieved, for the fortnight as well as cumulative upto the fortnight under reckoning, with reason for deviations, if any in a tabular format.
- (iv) Plant and machinery statement, indicating those deployed in the work.
- (v) Man-power statement indicating:
 - Individually the names of all the staff deployed on the work, along with their designations.

- No. of skilled workers (trade wise) and total no. of unskilled workers deployed on the work and their location of deployment i.e. blocks.

- (vi) Financial statement, indicating the broad details of all the running account payment received upto date, such as gross value of work done, advances taken, recoveries effected, amount withheld, net payments details of advance payment received, extra/substituted/deviation items if any, etc.

47) TEMPORARY WATER/ ELECTRICITY/ TELEPHONE CONNECTION

- (i) 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.
- (ii) 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. Nothing extra shall be payable on this account.
- (iii) 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 & electric supply shall be made by the Contractor for 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.

48) CLEANLINESS OF SITE

- (i) The contractor shall not stack building material/ malba/ muck on the land or road of the local development authority or on the land owned by others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Engineer-in-charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material / malba as stated above, the Contractor shall be liable to pay the stacking charges/penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority. The Engineer –in- Charge shall be at liberty to recover, such 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 and performance guarantee in respect of this contract agreement.
- (ii) 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, services and compound walls are to be constructed.

- (iii) The site of work shall be always kept clean due to constraints of space and to avoid any nuisance to the users of buildings in the adjacent plots. The Contractor shall take all care to prevent any water- logging at site. The waste water, slush etc. shall not be allowed to be collected at site. It may be directly pumped into the creek with prior approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from relevant 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.

49) INSPECTION OF WORK

In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by Senior Officers of CPWD/CTE/ TPQA and their representatives .The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.

50) SUBMISSION OF AS BUILT DRAWINGS

Final as built drawings for all the services, after completion of the project.

51) REFUND OF PERFORMANCE GUARANTEE

The performance guarantee for the work shall be refunded to the contractor soon after the completion of the entire construction works under this agreement and recording of the completion certificate for such agreement and submission of completion plans as constructed and subjected to submission of performance guarantee for Schedule II items as mentioned above.

52) DEFECT LIABILITY PERIOD (Refund of Security Deposit)

The defect liability / maintenance period shall be **06 months** after the date of completion work for this contract agreement. The Security Deposit shall be released after the defect liability period of 06 months after completion of entire project 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.

53) GENERAL CLARIFICATIONS

- (i) 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, upto the previous day of last date of submission of bids.
- (ii) Unless otherwise specified in the schedule of quantities, the amount quoted shall be considered, as inclusive of pumping out or bailing out water, if required throughout the construction period for which no extra payment shall be made. This shall also include water encountered from any source such as rains, floods, sub soil water table being high and/or due to any other cause whatsoever.
- (iii) All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries.

- (iv) The sand, Coarse/manufacture sand/Pulverized Stone sand/ crushed stone sand should be obtained from approved sources. The same shall be clean and sharp angular grit type. The sand shall be screened before using, if required. If the sand brought to site is dirty, it must be washed in clean water to bring the sand to the required specifications. Nothing extra shall be payable on this account.
- (v) The amount quoted for this work, shall unless clearly specified otherwise, include cost of all operations and all inputs of labour, material, T & P, scaffolding, wastages, watch and ward, other inputs, all incidental charges, all taxes, cess, GST, duties, levies etc. required for execution of the work.

54) DE-WATERING

- (i) 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.
- (ii) 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.

55) Applicable Permits

- (i) 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 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.
- (ii) 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.

56) Compliance of directives of Honorable National Green tribunal (NGT) dated 04.12.2014 and 10.04.2015 and EIA guidance manual issued in February 2010.

The contractor shall comply with following guidelines on the matter in pursuance of orders passed by Honorable National Green Tribunal.

- 1) The contractor shall not store / dump construction material or debris on metalled road.
- 2) The contractor shall get prior approval from Engineer-in-charge for the area where the construction material or debris can be stored beyond the metalled road. This area shall

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not cause any obstruction to the free flow of traffic / inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.

- 3) The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and/or other similar material to ensure that no construction material dust fly outside the plot area.
- 4) The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air / contaminate air.
- 5) The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
- 6) The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
- 7) The contractor shall ensure that C&D waste is transported to the C&D waste site only and due record shall be maintained by the contractor.
- 8) The contractor shall compulsory use of wet jet in grinding and stone cutting.
- 9) The contractor shall comply all the preventive and protective environmental steps as started in the MoEF guidelines, 2010.
- 10) The contractor shall carry out on-road-inspection for black smoke generating machinery. The contractor shall use cleaner fuel.
- 11) The contractor shall ensure that all DG sets comply emission norms notified by MoEF.
- 12) The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
- 13) The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.
- 14) Nothing shall be paid extra for fulfilling of all the above conditions.

- 57) Cost and quantity of cement required for adding cement slurry over the base surface and for continuation of concreting for better bond is deemed to be included in the relevant items of schedule of quantities.
- 58) Unless otherwise specified in the schedule of quantities, the rates for all the items shall be considered as inclusive of working in or under water and / or liquid mud and/ or foul conditions including pumping or bailing out liquid mud or water accumulated in excavations during the progress of the work from springs, tidal or river seepage, rain, broken water mains or drains and seepage from subsoil aquifer.

- 59) **All the materials to be used on works shall bear ISI certification mark** unless otherwise the make is specified in the item or special conditions appended with this bid document. In case of make of materials is specified in item, only articles classified as best quality shall only be used.
- 60) **The contractor will have to work according to the program of work, approved by the Engineer-in- charge.**
- 61) The contractor shall take instructions from the Engineer-in-charge for stacking of materials in any place. No excavated earth or building material shall be stacked on areas where other buildings, roads, services or compound walls are to be constructed.
- 62) The Cement godown of the **suitable** capacity shall be constructed by the contractor at site of work as per typical sketch for which no extra payment shall be made. Cement godown shall be provided with a **single door with two locks**. The keys of one lock shall remain with Engineer-in-charge of work or his authorized representative and that of the other lock with the authorized agent of the contractor at the site of work so that the cement is removed from the godown according to the daily requirement with the knowledge of both the parties and proper account maintained in standard Performa.
- 63) The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are under double lock system.
- 64) The contractor shall construct suitable godowns, yards at the site of work for storing all other materials so as to be safe against damage by sun, rain, fire, theft etc., at his own cost and also employ necessary watch and ward establishment for the purpose at his cost.
- 65) The contractor shall submit bar chart for completion of the work duly signed by the contractor so as to complete the work in stipulated time period and get it approved from the Engineer-in-Charge before commencement of work.
- 66) Any delay/failure on the part of bidder to arrange for men and materials at required time shall not be considered as valid hindrance.
- 67) **Water charges:** Clause 31A of P.W.D.8 for unfiltered water supply is not applicable since the **contractor has to arrange water for construction purposes. And this water shall be tested from a recognized laboratory periodically as directed by the Engineer-in-Charge. Testing charges will be borne by the contractor.**

PARTICULAR SPECIFICATIONS

1. Unless otherwise specified, CPWD Specifications 2019 Volume I & II with up to date correction slips shall be followed in general. Any additional item of work if taken up subsequently shall also conform to the relevant CPWD specifications mentioned above. Should there be any difference between description of items as given in the schedule of quantities, nomenclature and specifications for individual items of work (special conditions) and IS codes, the work shall be executed in the following order of preference.
 - (i) Description of items as given in Schedules of quantities.
 - (ii) Special conditions and particular specifications.
 - (iii) CPWD Specifications.
 - (iv) IS Codes.
2. In case of items not covered by the CPWD specifications referred to above, or particular specifications attached, reference shall be made to appropriate latest IS codes and the decision of the Engineer-in-Charge shall be final and binding on the contractor.
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 there to or revisions thereof if any, up to the date of receipt of bids.
4. 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).
5. All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries or any other source to be got approved by the Engineer-in-charge.
6. **Fine Aggregate:-**
 - (i) The fine aggregate to be used for all items except in Plastering work, shall be with Pulverized Stone Sand/ Crushed Stone Sand (Manufactured Sand) and shall be obtained from only approved sources. For Plastering Work, River Sand shall be used which shall be clean and sharp angular grit type. The sand shall be screened before using, if required. If the sand brought to site is dirty, it must be washed in clean water to bring the sand to the required specifications. Nothing extra shall be payable on this account.
 - (ii) The contractor should find out the approved source/quarries at his end also. To find out the approved source/quarries is the responsibility of contractor.
 - (iii) In case of non availability of crushed stone sand, the agency may be permitted at the discretion of Engineer-in Charge to use river/quarry sand on their request on production of adequate proof of non availability of the same, provided it conforms 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 IIT Chennai/IIT Hyderabad/ JNTU Hyderabad/ NCCBM Hyderabad, for which nothing extra shall be paid. In case of use of crushed stone sand, all necessary precautions for CC work, RCC work, masonry work, and all other related works shall be taken by the agency as per relevant CPWD specifications and BIS codes without any extra cost. Nothing extra shall be paid for using river/quarry sand in place of crushed stone sand.
7. Before taking up the finishing work such as Flooring, Plastering, sample unit of toilet, room etc. Contractor shall prepare full-scale sample for large-scale repetitive items and get approved from Engineer-in-Charge before taking up for execution on large scale.

8. The contractor shall get the samples of various materials, fittings to be used in work approved well in advance from the Engineer-in-Charge before placing orders.
9. The contractor shall produce all the materials in advance so that there is sufficient time for testing and approving of the material and clearance of the same before use in work.
10. Samples of various materials required for testing shall be provided free of charge by the contractor. He shall render all assistance for taking samples, safe custody of the same, and carriage up to the laboratory where the test is to be performed. The cost of the tests shall be borne by the contractor/department in the manner indicated below.
 - (i) By the contractor, if the results show that the material doesn't conform to relevant BIS codes.
 - (ii) By the department, if the results show that the material conforms to relevant BIS codes.
11. Testing charges, if any, unless otherwise provided, shall be borne by the contractor/department as per condition 10 above and all other expenditure required to be incurred for taking the samples, conveyance, packing etc. shall be borne by the contractor himself. B.I.S marked materials shall also be got tested beyond certain quantity of the various items required on the works. The technical sanctioning authority and shall decide the quantity limit as well as the test categories and decision of such technical sanctioning authority shall be final and binding on the contractor.
12. In case of concrete and reinforced concrete work, the contractor shall be required to make arrangement for carrying out compression strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same, proper curing and carriage up to the laboratory where the test is to be performed. The cube tests can be performed at any laboratory approved by the Engineer-in-charge.
13. Contractor shall associate himself with anyone of the specialist firms relating to the water proofing treatment with the approval of Engineer in charge.

14. **R.C.C.WORKS:**

- (i) In respect of projected balconies, projected slabs at roof level and projected verandah, the payment for the RCC work shall be made under the item of RCC slabs. The payment for centering and shuttering of such items shall similarly be paid under the item of centering and shuttering of RCC slab.
- (ii) Any cement slurry added over base surface or for continuation of concreting for better bond is deemed to have been in built in the items and nothing extra shall be payable nor any extra cement shall be considered in cement consumption on this account.
- (iii) **As per Technical Circular no.18 issued by CE(CSQ), CPWD, New Delhi vide no.G-2/SE(QA) /CSQ/69 dated 12.2.2013 , Ultrasonic Pulse Velocity Method of Test for RCC members is required to be conducted for CPWD works as a routine test. The acceptance criteria applicable is as per IS 13311 (Part I) 1992. It may be ensured that this test is carried out in 5% of RCC structural members, to ensure quality of concrete. "Good" and "Excellent" grading are acceptable and below these grading the concrete will not be acceptable.**

Wherever concrete is found with less than required quality as per acceptance criteria, repairs to concrete shall be made. Honeycombed areas and loose pockets shall be repaired by grouting using Portland cement Mortar/ Polymer Modified Cement Mortar/ Epoxy Mortar after chipping loose concrete in appropriate manner. In areas where concrete is found below acceptance criteria and defects are not apparently visible on

surface, injecting approved grout in appropriate proportion using epoxy grout/acrylic polymer modified cement slurry made with shrinkage compensating cement/ plain cement slurry etc. shall be resorted to for repairs. Repair to concrete shall be done till satisfactory results are obtained as per the acceptance criteria by retesting of the repaired areas. If satisfactory results are not obtained, dismantling and relaying of concrete shall be done. Nothing extra shall be payable over and above the agreement item for executing such rectification works.

15. BRICK WORK

- (i) The brickwork shall be carried out with good quality fly ash cement bricks of class designation 7.5. The physical properties shall conform to those of Fly Ash cement bricks as per CPWD Specifications.
- (ii) The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.
- (iii) 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.

16. FLOORING:

- (i) All work in general shall be carried out as per CPWD Specifications (Volume 1) 2019 with up-to-date correction slips.
- (ii) Whenever flooring is to be done in patterns of tiles and stones, the contractor shall get samples of each pattern laid and approved by the Engineer-in-charge before final laying of such flooring. Nothing extra shall be payable on this account.
- (iii) Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item and nothing extra for laying pattern flooring shall be paid over and above the quoted rate. No additional wastage, if any, shall be accounted for any extra payment.
- (iv) Samples of flooring stones/ Tile (Kota/ Marble/ Granite/ Ceramic tiles/ Vitrified tiles etc.) shall be deposited well in advance with the Engineer-in-Charge for approval. The sizes of stones for flooring shall be of a size not less than 600mmx600mm or as approved by Engineer-in-Charge. Approved samples should be kept at site with the Engineer-in- Charge and the same shall not be removed except with the written permission of Engineer-in-Charge. No payment whatsoever shall be made for these samples.
- (v) The Marble/ Kota/ Granite or any other stone shall be fully supported by the details establishing the quarry and its location or source.
- (vi) The rate of items of flooring is inclusive of Providing Sunken Flooring in Bathrooms, Kitchen, W.C., etc. and nothing extra on this account is admissible.
- (vii) Chasing of required width and thickness shall be made in brick work at skirting location so as to flush the external surface of skirting with internal plastering. No extra payment towards making chases in brick work at skirting shall be made and the same is presumed to be inclusive of rate quoted for the item of providing and fixing skirting.
- (viii) Proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard etc. so that the wash water flows towards the direction of floor trap. Any reverse slope if found, shall be made good by the contractor by ripping open the floor/grading concrete and nothing shall be paid for such rectifications.

- (ix) The flooring and skirting will be executed as per pattern shown in the Architectural drawings and as per approval of Engineer-in-Charge and nothing extra shall be payable on this account.
- (x) The rate shall include the cost of all materials and labour involved in all the operations. Nothing extra shall be paid for use of cut/sawn stone/ tiles in the work.
- (xi) **Vitrified Tile Flooring**
 - a) The tiles shall be of approved make and shall generally conform to Table 12 of IS15622.
The full body Vitrified tiles of specified sizes shall be used & sample of tiles shall be got approved from the Engineer-in-Charge. The Mandatory tests for vitrified tiles shall be got done as per CPWD Specifications (volume-1)/relevant BIS Code.
 - b) The vitrified tiles shall be as specified in the item. The tiles shall be of specified colours as shown in the drawings or as approved by Engineer-in-Charge and will be laid in pattern as per architectural drawings. Nothing extra shall be paid for laying tiles in specific pattern. The tiles shall be of first quality of approved make.

17. WATER SUPPLY AND SANITARY INSTALLATIONS:

- (i) The centrifugally cast (spun) iron S&S pipe, Hub less pipes and G.I pipe / CPVC Pipes/ SWR Pipes wherever necessary shall be fixed to RCC columns, beams etc. with steel dash fastener and nothing extra shall be paid for this.
- (ii) The contractor shall be responsible for the protection of the sanitary and water supply fittings and other fittings and fixtures against pilferages and breakage during the period of installation and thereafter until the building is handed over.
- (iii) The fixing and jointing of vertical CI/SCI pipes/Stacks shall be done on MS brackets as per TECHNICAL CIRCULAR No. 20 Dated 16-04-2013, issued by SE (QA), CSQ, CPWD, New Delhi. A copy of Sketch / Figure showing Fixing Details of Vertical Pipes / Stacks is attached. The piping stack shall be installed at least 50mm, away from the finished / plastered shaft wall. The Item of Brackets and Clamps shall be paid for separately. From floor traps to outside CI fittings only single piece connection pipe shall be used.

18. WATER PROOFING TREATMENT

1) IN SUNKEN/DEPRESSED FLOOR SLABS

(i) INTEGRAL WATER PROOFING TREATMENT

- a) The specification given for the roof surface shall apply for treatment of sunken floor slabs except that instead of brick bats, well burnt brick aggregates of about 40 mm, size shall be used and rounding and tapering at junctions of floor and beam/wall shall be done to a height of 300 mm, The finishing layer of 20 mm. thick cement mortar and cement slurry shall be continued on the vertical surfaces for the entire sunken portion. The finished surface shall be true to line/ level and gradient as specified and of the required thickness.
- b) Water proofing treatment shall be cured for 10 days.
- c) Before the water proofing treatment is done it shall be ensured that the outlet pipes are properly fixed and the gap between the wall and pipes are properly filled with brick/stone aggregate and cement mortar admixed with proprietary water proofing

compound and grouted with cement slurry admixed with proprietary water proofing compound by injection process.

(ii) **MEMBRANE WATER PROOFING TREATMENT**

- a) The work in general shall be carried out as per CPWD Specifications or / as per Manufacturer's Specifications. The Applicators authorized by the manufacturers shall only be engaged in the work.
- b) Before the water proofing treatment is done it shall be ensured that the outlet pipes are properly fixed and the gap between the wall and pipes are properly filled with brick/stone aggregate and cement mortar admixed with proprietary water proofing compound and grouted with cement slurry admixed with proprietary water proofing compound by injection process.

2) **ON TERRACE/ROOF/BALCONIES ETC**

- (i) The work in general shall be executed as per Manufacturers Specifications or CPWD Specifications as applicable.
- (ii) Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the Engineer in Charge in writing. Materials shall be kept under double lock and key and proper account of water proofing compound used in the work shall be maintained. It shall be ensured that the consumption of the compound is as per specified requirements.
- (iii) The finished surface after water proofing treatment for floor in sunken portion shall have minimum slope of 1 in 48 unless otherwise decided by the Engineer in Charge.
- (iv) Before commencement of treatment on floor surface, it shall be ensured that outlet drain/spouts have been fixed and the spout openings have been eased and rounded off properly for easy flow of water.
- (v) Contractor shall associate himself with anyone of the specialist firms relating to the water proofing treatment with the approval of Engineer in charge.
- (vi) **Water proofing treatment of all types of work: The Contractor(s) shall submit for the approval of the Engineer-in-Charge, the names of specialized agencies, of repute along with their technical & financial capability proposed to be engaged by him within three months from the date of award who have executed satisfactorily at least one similar work of equal or more magnitude or two similar works of minimum 50% magnitude (Financial) of water proofing items in the agreement during the last seven years.**

19. GUARANTEE FOR WATER PROOFING WORKS:

Five (5) years guarantee bond in prescribed proforma (Annexure-III) attached herewith shall be submitted by the contractor which shall also be signed by both the specialized agency and the contractor to meet their liability/liabilities under the guarantee bond. However, the sole responsibility of above efficiency of water proofing treatment shall rest with the building contractor. Separate guarantee bonds shall be submitted by the contractor for different type of water proofing works. **Additional 5% (five percent) of the cost water proofing work (other than Security Deposit mentioned in schedule E) shall be retained as security deposit** and the amount so withheld would be released after **five** years from the date of expiry of maintenance

period under the agreement, if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within 7(**seven**) days of receipt of intimation of defects pointed out, and if not attended within the specified period, the same will be got done from other Agency/Agencies at the risk and cost of contractor. While attending to the rectification work, the Contractor is responsible to restore and make good any collateral damages likely to occur, to its original specifications. The cost of executing these contiguous works while attending the rectification works shall be borne by the contractor. The security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in contract form.

20. GUARANTEE BOND FOR STRUCTURAL GLAZING WORK:

Five (5) years guarantee bond in prescribed proforma (Annexure-IV) attached herewith shall be submitted by the contractor which shall also be signed by both the specialized agency to be approved by Engineer-in-charge and the contractor to meet their liability/liabilities under the guarantee bond. However, the sole responsibility of above efficiency of aluminum work shall rest with the building contractor. **Additional 5% (five percent) of the cost of Structural Glazing work (other than Security Deposit mentioned in schedule E) shall be retained as security deposit** and the amount so withheld would be released after five years from the date of expiry of maintenance period under the agreement, if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of receipt of intimation of defects pointed and if are not attended within the specified period, the same will be got done from other agency at the risk and cost of contractor. The security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in contract form.

21. CEMENT & STEEL REINFORCEMENT

Contractor has to procure Cement and Steel and has to produce manufacturers test certificate and challan for each lot of Cement & Steel Reinforcement procured at site.

A. CONDITIONS FOR CEMENT

1. The contractor shall procure **Portland Pozzolona Cement (PPC) conforming to IS: 1489 (Part-1) /43 grade ordinary Portland Cement (OPC) conforming to IS: 8112** as required in the work from reputed manufacturers of cement such as ACC, Ultratech, Shree Cement, Ambuja, Jaypee Cement, Vikarm, Centuary and J.K. Cement or from any other reputed cement manufacture having a production capacity not less than 1 million Ton per annum as approved by ADG(SR-I), CPWD. The cement of approved make as aforesaid in 50 kg. bag 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 all works. However, the use of Portland Pozzolona Cement in RCC works shall be subject to fulfillment of conditions of circular No. CDO/SE(RR)/Fly ash (MAN) 02 dated 09.04.09. It shall be noted that, 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 M25 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 flyash mixed concrete or concrete using flyash 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 flyash 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 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 flyash admixed or PPC based concrete is recommended. In case, where structural concrete is exposed to excessive magnesium sulphate, flyash 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 20 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 flyash 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 flyash shall be permitted.**

- 2 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer-In-Charge. The cement godown of the capacity to store a minimum of 2000 bags of cement or as decided by NIT approving authority in case less than 100MT cement is required for the work, shall be constructed by the contractor at site of work for which no extra payment shall be made. For small maintenance works, NIT approving authority shall decide the requirement of the storage/godown.

- 3 **Double lock provision shall be made to the door of the cement godown.** The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-charge at any time.

- 4 The cement shall be got tested by the Engineer-In-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor/Department in the manner indicated below: (a) By the contractor, if the results show that the cement does not conform to relevant BIS codes. (b) By the Department, if the results show that the cement conforms to relevant BIS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.
- 5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made after ensuring structural soundness and stability on the basis of testing. In case of excess consumption no adjustment need to made.
- 6 The cement brought to the site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-charge.
- 7 The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-In-Charge. If he does not do so within 3 days of receipt of such notice, the Engineer-In-Charge shall get it removed at the cost of the contractor.
- 8 Chief Engineers/CPMs/ADGs/SDGs may change the brand of Cement depending upon availability in local market but conforming to grade mentioned in the NIT and only with ISI mark, if warranted. The name of manufacturers should be finalized after taking into consideration the availability and cost factor.

B. CONDITIONS FOR STEEL

- (I) Only ISI marked TMT Bars of various grades shall be procured from Steel manufacturer as per the following guidelines:**

Credentials for eligibility criteria & other technical parameters for steel manufacturers:

The manufacturer should meet the following eligibility criteria:

- a) The Steel manufacturer should have following documentary evidence:
 - i. Certificate of incorporation
 - ii. Memorandum of articles of Association
 - iii. Credit rating of the company from CARE/CRISIL/ICRA (the grading should not be C/D grade for minimum last 3 years)
- b) The Steel manufacturer must have following licenses and certificates:
 - i. ISI certificate for billets (IS 2830:2012)
 - ii. ISI certificate for TMT Bars• (IS 1786:2008 (Amendment-1 November 2012))
- c) The Steel manufacturer should also preferably have the following licenses:
 - i. ISO 9001:2015
 - ii. ISO 14001:2015
 - iii. OHSAS 18001:2007
- d) The steel manufacturer should be using iron ore as the basic raw material. The entire gamut of iron and steel production is owned by the same company or its subsidiary company (ies)

and the iron making capacity is sufficiently matching the steel making capacity, adopting any of the refining technologies for manufacturing steel & TMT Bars as given under are eligible:

- i. BF-BOF route
- ii. COREX-BOF Route
- iii. DRI-EAF Route (Each Electric Arc Furnace should be 100 MT or more)

- e) Billets produced must be ISI marked (IS 2830:2012)
- f) The TMT bars produced must be ISI marked (IS 1786:2008)
- g) The steel manufacturer should have the following in house testing facilities (NABL Accredited):
 - i. Computerized Universal Testing Machine
 - ii. Spectrometer
 - iii. Bend Re-bend facility as per IS :1786:2008 (Amendmnt-1 November 2012)
 - iv. Raw material laboratory: Arrangement for testing Carbon, Sulphur & Phosphorous etc.
 - v. Other testing facilities as specified in IS : 1786:2008 & IS : 2830:2012

1) SDGs are also authorized to approve particular steel manufacturer on suo motto in case they are satisfied with the eligibility criteria and other technical parameters of that manufacturer.

(II) 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.

(III) Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.

(IV) 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.

(V) 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.

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

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

(VII) 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.

(VIII) The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.

- (IX) 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) The contractor shall furnish to the Department all the purchase invoices both for cement and steel for every consignment.
 - 3) Weight being calculated with the help of Table 5.4 of CPWD Specifications 2019 (Volume .I). However for thermo-mechanically treated bars up to and including 10 mm the following procedure shall be adopted. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The actual weight of steel issued shall be modified to take into account the variation between the actual and the standard co-efficient given in Table 5.4 and the contractors accounts will be debited by the cost modified quantity only. 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 this purpose.
 - 4) All materials obtained from government stores or otherwise shall be got checked by the Junior Engineer-in-charge of the works on receipt of the same at site before use.
 - 5) The contractor should use factory made round type cover blocks for all RCC works to avoid displacement of bars in any directions and to ensure proper cover.
 - 6) Contractor must arrange steel centering and shuttering with steel propping for a minimum area, for casting beams & slabs of one floor at a time for this work.
 - 7) Contractor shall ensure that no labourers stay in the work site except chowkidars and other essential staff.
 - 8) Contractor shall arrange hutments outside or elsewhere for the stay of Workers / laborers working for the project.
 - 9) Contractor shall employ qualified graduate quantity surveyor for computing running bills.

22. **TOOLS AND PLANTS.**

The necessary T&P shall be deployed by the contractor as required to facilitate and ensure the work to be completed smoothly within the stipulated scheduled time.

23. **R.C.C. WORK (DESIGN MIX CONCRETE)**

The term machine batched, machine mixed and machine vibrated design mix cement concrete used in the document shall mean the concrete produced in fully automatic concrete batching & mixing plant, placed in position by the concrete pump and vibrated by surface vibrator/ needle vibrator/ plate vibrator, as the case may be to achieve the required strength and durability.

Before start of RCC work concrete Mix Design shall be got done by the contractor from a NABL accredited laboratory/ IIT/ NIT/JNTU laboratory with the approval of Engineer-in-Charge. **The RCC Work shall be carried out as per the Mix Design approved by the Engineer-in-charge. No concreting shall be done until the mix design is approved.**

GENERAL:-

- (i) The RCC work shall be done with RMC of Design Mix Concrete, unless otherwise specified in the nomenclature of items, wherever letter M has been indicated, the same shall imply for the Design Mix Concrete. **The Ready Mix Concrete shall be as per IS: 4926 and as per CPWD Specification and guide lines.** For the nominal mix in RCC, CPWD specification shall be followed. **The Design Mix Concrete will be designed based on the principles given in IS : 456, 10262 and SP 23.** The contractor shall carry out design mixes for each class of concrete indicating that the concrete ingredients and

proportions will result in concrete mix meeting requirements specified. The cement shall be actually weighed as presumption of each bag having 50 kg shall not be allowed. In case of use of admixture, the mix shall be designed with these ingredients as well.

The specification mentioned herein below shall be followed for Design Mix Concrete.

INGREDIENT

- (i) Coarse Aggregate:- As per CPWD Specifications.
Fine Aggregate:- As per CPWD Specifications.
Water:- As per requirements laid down in IS 456-2000 and CPWD specifications.
Cement:- Cement arranged by the contractor will be OPC (in bags) conforming to IS: 8112.
- (ii) Admixture: - Type of Admixture shall be got approved from Engineer-in-Charge. Admixtures of approved quality shall be mixed with concrete to achieve the desired workability within specified water cement ratio. The admixture shall conform to IS: 9103. The chloride content in the admixture shall satisfy the requirement of BS: 5075. The total amount of chlorides in the admixture mixed concrete shall also satisfy the requirements of IS : 456-2000
- (iii) The contractor shall not be paid anything extra for admixture required for achieving desired workability without any change in specified water cement ratio for RCC / CC work.
- (iv) Grade of concrete:- The characteristic compressive strength of various grades of Concrete shall be given as below:-

Sl. No	Grade Designation	Compressive strength on 15cm cubes min 28 days (N/mm ²)	Specified characteristic compressive strength at 28 days (N/mm ²)	Minimum cement content *(Kg per cum)	Maximum water cement ratio
(i)	M-25	As per mix Design	25	330	0.50
(ii)	M-30	As per mix Design	30	340	0.45
(iii)	M-10	As per mix Design	10	220	0.60

The Concrete mix will be designed for minimum workability as specified in para 7 of IS-456-2000.

- (v) WORKABILITY OF CONCRETE (UNLESS OTHERWISE SPECIFIED ELSEWHERE OR AS DECIDED BY ENGINEER IN CHARGE.

Placing Conditions	Degree of Workability	Slump (mm)
(1)	(2)	(3)
Lightly reinforced sections in slabs, beams, walls, columns	Low	25-75
Heavily reinforced section in slabs, beams, walls, columns.	Medium	50-100
Pumped concrete	Medium	75-100

- (vi) The recommended values of slump for various members to confirm IS 456
- (vii) In the designation of concrete mix letter M refers to the mix and the number to the specified characteristic compressive strength of 15 cm – Cube at 28 days expressed in N/mm².

- (viii) The concrete design mix with or without admixture will be carried out by the Contractor and got tested by any reputed approved NABL accredited laboratory/ university as per direction of Engineer-In-Charge.

For such approval various ingredients for mix design as submitted by contractor shall be sent to the lab/ test houses through the Engineer-In-Charge of the project and got it tested in approved laboratories as may be decided by the Engineer-in-charge. Sample of aggregate sent shall be preserved at site by the department. For each different set of Coarse aggregates & Fine aggregates, fresh design shall be done and got approved by the Department. The admixture if used by contractor shall be at his own cost without any extra payment.

* Note: **The Cement content means ordinary Portland cement of 43 grade.**

- (ix) In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted in approved Lab. by Engineer-In- Charge shall be submitted by the contractor as per the direction of the Engineer in charge.
- (x) In case of failure of batching plant and **site conditions warrants for smooth progress of work, RMC of suitable design mix may be allowed with the written permission of Engineer-in-charge, and with no claim of extra cost from the contractor.**

24. APPROVAL OF DESIGN MIX

- (i) The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ck} = F_{ck} + 1.65s$
- Where F_{ck} = Characteristic Compressive Strength at 28 days s = Standard deviation which depends on degree of quality control.
- (ii) The degree of quality control for this work is “good” for which the standard deviation (s) obtained for different grades of concrete shall be as per IS relevant IS Standards/ Codes.
- (iii) Out of the six specimen of each set, three shall be tested at seven days and remaining three at 28 days. The preliminary tests at seven days are intended only to indicate the strength to be attained at 28 days.

25. CHARGES FOR DESIGN MIX

- (i) All cost of mix designing and testing connected therewith including charges payable to the laboratory shall be borne by the Contractor.

26. DESIGN MIX CONCRETE FROM FULLY AUTOMATIC COMPUTERISED CONCRETE BATCHING AND MIXING PLANT

- 1) The contractor shall bring Ready Mix Concrete from approved RMC plants as mentioned in the list showing preferred Brands/ Manufacturers/Makes enclosed in this NIT. The contractor has to produce text of MOU proposed to be entered between purchaser (the contractor) and supplier (R.M.C. plant) to the Engineer-in-charge. The Engineer-in-charge shall give approval in writing. The contractor shall draw the MOU with approved RMC plant owner / company and submit to Engineer-in-charge within a week of such approval. The contractor will not be allowed to purchase ready mixed concrete without completion of above stated formalities for use in this project.

- 2) Notwithstanding the approval granted by Engineer-in-charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.
- 3) The Engineer-in-charge will reserve right to inspect at any such stage and reject the concrete if he is not satisfied about quality of product. The contractor should therefore draw MOU / agreement with RMC owner / company very carefully keeping all terms and conditions / specifications forming a part of this tender document.
 - (i) The Engineer-in-charge reserves the right to exercise control over the ingredients, water and admixtures purchased, stored and to be used in the concrete including conducting of tests for checking quality of materials, recordings of test results and declaring the materials fit or unfit for use in production of mix.
 - (ii) Calibration check of the RMC.
 - (iii) Weight and quantity check on the ingredients, water and admixtures added for batch mixing.
 - (iv) Time of mixing of concrete.
 - (v) Testing of fresh concrete, recordings of results and declaring the mix fit or unfit for use. This will include continuous control on the workability during production and taking corrective action.
- 4) For exercising such control, the Engineer-in-charge shall periodically depute his authorized representative at the RMC plant. It shall be responsibility of the contractor to ensure that all necessary equipment manpower & facilities are made available to E-in-C and/ or his authorized representative at RMC plant.
- 5) Ingredients, admixtures & water declared unfit for use in production of mix shall not be used. A batch mix found unfit for use shall not be loaded into the truck for transportation.
- 6) All required relevant records of RMC shall be made available to the Engineer-in-charge or his authorized representative. The E-in-C shall, as required, specify guidelines & additional procedures for quality control & other parameters in respect of materials and production & transportation of concrete mix, which shall be binding on the contractor & the RMC plant.
 - (i) Proportioning Concrete
In proportioning cement concrete, the quantity of both cement and aggregates shall be determined by weight. The cement shall be weighed separately from the aggregates. Water shall either be measured by volume in calibrated tanks or weighed. All measuring equipment shall be maintained in a clean and serviceable condition. The amount of mixing water shall be adjusted to compensate for moisture content in both coarse and fine aggregates. The moisture content of aggregates shall be determined in accordance with IS: 2386 (Part III). Suitable adjustments shall also be made in the weights of aggregates to allow for the variation in weight of aggregates due to variation in moisture content.

27. Production of Concrete

The concrete shall be RMC produced in a central batching and mixing plant with, computerized printing for contents and admixture dosage. The batching plant shall be fully automatic. Automatic batcher shall be charged by devices which, when actuated by a Single starter switch will automatically start the weighing operation of each material and stop automatically, when the designated weight of each material has been reached. The batching plant shall have automatic arrangement for dispensing the admixture and shall also be capable of discharging water in more than one stage. A print out from the batching plant for every lot shall be submitted. A batching

plant essentially shall consist of the following components: Separate storage bins for different sizes of aggregates, silo for cement; and water storage tank.

Batching equipment Mixers Control panels Mechanical material feeding and elevating arrangements

The Contractor shall arrange for inspection of automatic batching plant within seven days of issue of letter of award to facilitate inspection and approval of same by Engineer-In-Charge. Nothing extra will be paid for this.

The compartments of storage bins for aggregates shall be approximately of equal size. The cement compartment shall be centrally located in the batching plant. It shall be watertight and provided with necessary air vent, aeration fittings for proper flow of cement & emergency cement cut off gate. The aggregate and sand shall be charged by power operated centrally revolving chute. The entire plant from mixer floor upward shall be enclosed and insulated. The batch bins shall be constructed so as to pass by self-cleansing during drawdown. The batch bins shall in general conform to the requirements of IS :4925.

The batching equipment shall be capable of determining and controlling the prescribed amounts of various constituent materials for concrete accurately i.e. water, cement, sand, individual size of coarse aggregates etc. The accuracy of the measuring devices shall fall within the following limits.

Measurement of Cement	±2% of the quantity of cement in each batch
Measurement of Water	±3% of the quantity of water in each batch
Measurement of Aggregate	±3% of the quantity of aggregate in each batch
Measurement of Admixture	±3% of the quantity of admixture in each batch

(i) Mixing Concrete

The mixer in the batching plant shall be so arranged that mixing action in the mixers can be observed from the operator's station. The mixer shall be equipped with a mechanically or electrically operated timing, signaling and metering device which will indicate and assure completion of the required mixing period. The mixer shall have all other components as specified in IS: 4925.

(ii) Transportation, Placing and Compaction of Concrete.

a) Mixed concrete from the batching plant shall be transported to the point of placement by transit mixers or through concrete pumps or steel closed bottom buckets capable of carrying 6 cum concrete. In case the concrete is proposed to be transported by transit mixer, the mixer speed shall not be less than 4 rev/ min. of the drum nor greater than a speed resulting in a peripheral velocity of the drum as 70 m / minute at its largest diameter. The agitating speed of the agitator shall be not less than 2 rev / min. nor more than 6 rev / min. of the drum. The number of revolutions of the mixing drum or blades at mixing speed shall be between 70 to 100 revolutions for a uniform mix, after all ingredients, have been charged into the drum. Unless tempering water is added, all rotation after 100 revolutions shall be at agitating speed of 2 to 6 rev / min. and the number of such rotations shall not exceed 250. The general construction of transit mixer and other requirements shall conform to IS: 5892.

b) In case concrete is to be transported by pumping, the conduit shall be primed by pumping a batch of mortar / thick cement slurry through the line to lubricate it. Once the pumping is started, it shall not be interrupted (if at all possible) as concrete

standing idle in the line is liable to cause a plug. The operator shall ensure that some concrete is always there in the pump-receiving hopper during operation. The lines shall always be maintained clean and shall be free of dents.

- c) Materials for pumped concrete shall be batched consistently and uniformly. Maximum size of aggregate shall not exceed one-third of the internal diameter of the pipe. Grading of aggregate shall be continuous and shall have sufficient ultra fine materials (materials finer than 0.25mm). Proportion of fine aggregates passing through 0.25mm shall be between 15 & 30% and that passing through 0.125 mm sieve shall not be less than 5% of the total volume of aggregate. When pumping long distances and through hot weather, set- retarding admixtures may be used. Admixtures to improve workability can be added. Suitability of concrete shall be through pumping shall be verified by trial mixes and by performing pumping tests.

(iii) PREPARATION OF MIXES AS PER APPROVED DESIGN MIX AND CONDUCTING CONFIRMATORY TEST AT FIELD LAB.

- a) The contractor shall make the cubes of trial mixes as per approved Mix design at site laboratory for all grades, in presence of Engineer in charge using sample of approved materials proposed to be used in the work prior to commencement of concreting and get them tested in his presence to his entire satisfaction for 20 Days and 28 days. Test cubes shall be taken from trial mixes as follows.

For each mix, a set of six cubes shall be made from each of the three consecutive batches. Three cubes from each set of six shall be tested at age of 20 Days and remaining three cubes at age of 28 days. The cubes shall be made, cured, transported and tested strictly in accordance with specifications. The average strength of nine cubes at age of 28 days shall exceed the specified target mean strength for which design mix has been approved, the evaluation of test results will be done as per IS : 456-2000.

28. WORK STRENGTH TEST

TEST SPECIMEN

Work strength test shall be conducted in accordance with IS: 516 on random sampling. Each test shall be conducted on six specimens, three of which shall be tested at 20 Days and remaining three at 28 days. Additional samples shall be prepared, if required, as per direction of Engineer in charge for testing samples cured by accelerated method as described in IS: 9103.

29. TEST RESULTS OF SAMPLE

The test results of the sample shall be the average of the strength of three specimens. The individual variation shall not be more than + - 15 percent of the average. If more, the test results of the sample are invalid. 90% of the total tests shall be done at the laboratory established at site by the contractor and remaining 10% in the laboratory of Government Engineering colleges, or in any other approved laboratory as directed by the Engineer- in-charge.

30. STANDARD FOR ACCEPTANCE

- i) Standard of acceptance shall be same as specified in clause 16 of IS 456-2000.
- ii) In order to keep the floor finish as per direction of Engineer-in-charge and as per Architectural drawings and to provide required thickness of the flooring as per specification, the level of top surface of RCC shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the contractor.

31. Ultrasonic Pulse Velocity Method of Test for RCC

- i) The underlying principle of assessing the quality of concrete is that comparatively higher velocities are obtained when the quality of concrete in terms of density, homogeneity and uniformly is good. The consistency of the concrete as regards its general quality gets established. In case of poorer quality lower velocities are obtained. If there are cracks, voids or flaws inside the concrete which come in the way of transmission of pulse, lower velocities are obtained.
- ii) The quality of concrete in terms of uniformity, incidence or absence of internal flaws, cracks and segregation etc. indicative of the level of workmanship employed, can thus be assessed using the guidance given in table below, which have been evolved for characterizing the quality concrete in structure in term of the ultrasonic pulse velocity.

Velocity criterion for Concrete Quality Grading.

Sl. No.	Pulse velocity by Cross Probing (km/sec)	Concrete Quality Grading
1	Above 4.5	Excellent
2	4.5 to 3.5	Good
3	3.5 to 3.0	Medium
4	Below 3.0	Doubtful

Note: In Case of “doubtful” quality it may be necessary to carry further tests.

- iii) Pulse velocity method of test of concrete is to be conducted for CPWD works as a routine test. The acceptance criteria as per the above table will be applicable which is as per IS 13311 (part-1): 1992. From the above “Good” and “Excellent” grading are acceptable and below these grading the concrete will not be acceptable.
- iv) 5% of the total number of RCC members in each category i.e. beam, column, slab and footing may be tested by UPV test method for establishing quality of concrete. It is suggested that test be conducted on RCC beam near joint with column, on RCC column near joint with beam, on RCC footings and rafts. On RCC rafts a suitable grid can be worked out for determining number of tests. In addition doubtful areas such as honeycombed locations, locations, where continuous seepage is observed, construction joints and visible loose pockets will also be tested.
- v) The test results are to be examined in view of the above acceptance criteria “Good” and “Excellent” and wherever concrete is found with less than required quality as per acceptance criteria, repairs to concrete will be made. Honeycombed areas and loose pockets will be repaired by grouting using Portland Cement Mortar/Polymer Modified Cement Mortar /Epoxy Mortar ,etc. after chipping loose concrete in appropriate manner. In areas where concrete is found below acceptance criteria and defects are not apparently visible on surface, injecting approved grout in appropriate proportion using epoxy grout /acrylic Polymer modified cements slurry made with shrinkage compensating cement / plain cement slurry etc will be resorted to for repairs.(refer relevant chapters from CPWD Hand Book on Repairs and Rehabilitation of RCC Buildings).Repair to concrete will be done till satisfactory results are obtained as per the acceptance criteria by retesting of the repaired area. If satisfactory results are not obtained dismantling and relaying of concrete will be done.

32. MEASUREMENT:

As per CPWD specifications.

33. TOLERANCES:

As per CPWD specifications

34. RATE:

- i) The rate includes the cost of materials and labour involved in all the operations described above except for the cost of centering, shuttering and reinforcement, which will be paid for separately.
- ii) In case of actual average compressive strength being less than specified strength which shall be governed by Para „Standard of Acceptance” as above the rate payable shall be worked out accordingly on the basis of analysis.
- iii) In case of rejection of concrete on account of unacceptable compressive strength, governed by Para „Standard of Acceptance” as above, the work for which samples have failed shall be redone at the cost of contractors. However, the Engineer in charge may order for additional tests (like cutting cores, ultrasonic pulse velocity test, load test on structure or part of structure etc) to be carried out at the cost of contractor to ascertain if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The contractor shall take remedial measures necessary to retain the structure as approved by the Engineer in charge without any extra cost. However, for payment, the basis of rate payable to contractor shall be governed by the 28 days cube test results and reduced rates shall be regulated in accordance with Para 5.4.13 of Revised CPWD specification 2019, Vol.-I.
- iv) 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. The landing level of mumi / Staircase cabin shall be Kept one riser level higher than adjoining slab level so as to accommodate water proofing treatment over terrace slab. In case of kitchen slab the portion of floor trap below kitchen platform be kept at lower level as per drawings. Nothing extra is payable on this account.
- v) For the execution of centering and shuttering, the contractor shall use propriety “Reebole” chemical mould release agent of FOSROC or equivalent as shuttering oil as approved by Engineer-in-charge and nothing extra shall be paid on this account.

35. COVER/SPACER BLOCK

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 of high early strength and same colour as surrounding concrete, Pre-cast cement mortar/concrete blocks/ blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-charge, rate of RCC items is inclusive of cost of such cover blocks.

36. ALUMINIUM WORK

FIVE years guarantee bond in prescribed proforma (**Annexure-IV**) attached herewith shall be submitted by the contractor which shall also be signed by both the specialized agency and the

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I - Nil
O - Nil
C - Nil

contractor to meet their liability/liabilities under the guarantee bond. However, the sole responsibility of above efficiency of Aluminum Work shall rest with the building contractor.

- i) The material for the work shall be procured from the approved manufacturer as per the list attached with the tender documents. The Contractor shall procure and submit samples of various materials to be used in the work for the approval of Engineer-in-Charge and no work shall commence before such samples are approved. Samples of un-anodized as well as polyester powder coated aluminum sections, microwave cured EPDM gaskets, glass, stainless steel screws, anchor fasteners, hardware and any other material or components requiring approval of samples, in opinion of Engineer-in-Charge, shall be submitted for the approval as mentioned above. The above samples shall be retained as standards of materials and workmanship.
- ii) The Contractor shall prepare the shop drawings for the aluminum windows giving details of the various aluminum sections, microwave cured EPDM gaskets, cleats, anchor fasteners, hardware, sealants, glass etc. and submit the same for the approval of Engineer- in-Charge.
- iii) Only after the approval of the samples and the shop drawings by the Engineer-in-Charge, the Contractor shall procure the material for the work. All materials brought to the site by the Contractor, for use in the work, as well as fabricated components shall be subject to inspection and approval by Engineer-in-Charge. The Contractor shall produce manufacturer's test certificates for any material or particular batch of materials supplied by him.
- iv) The Contractor shall prepare a finished sample of the aluminum window along with glazing panel and fittings etc. for approval of workmanship and material. Nothing extra shall be payable on this account.
- v) Aluminum sections to be used for various works shall be appropriate to meet technical, structural, functional and aesthetic considerations. The polyester powder coating shall be carried out in an approved factory / workshop as specified in the tender documents.

vi) Fabrication

All joints shall be accurately fabricated and be hairline in appearance. The finished surface shall be free from visible defects. All the aluminum windows/ ventilators /doors shall be factory made and shall be brought to site for assembly and fixing.

All hardware used shall conform to the relevant specifications and as per samples approved by the Engineer- in-Charge. Design, quality, type, number and fixing of hardware shall be generally in accordance with architectural drawings and as approved by the Engineer-in-Charge before use.

All doors, windows, ventilators and glazing etc. shall be made water tight with microwave cured EPDM gaskets and weather silicone sealants to the satisfaction of the Engineer-in-Charge, for which nothing extra shall be payable.

The frames shall be strictly as per Architectural drawings, the corners of the frame being fabricated to the true right angles. Both the fixed frames and openable shutter frames shall be fabricated out of sections cut to required length, mitered and mechanically jointed for satisfactory performance. All members shall be accurately machine milled and fitted to form hairline joints. The jointing accessories such as aluminum cleats, stainless steel screws etc. shall not to cause any bi-metallic reaction by providing separators, wherever required. 6.5 Vertical members of the aluminium frame work shall be embedded in the floors, wherever required, by cutting and making good of the floor.

37. FIXING OF ALUMINIUM FRAME WORK

The screws used for fixing fixed aluminium frames of the aluminium windows to masonry walls / RCC members and aluminium members to other aluminium members shall be of stainless steel of approved make and quality and of stainless steel grade 304. Threads of machine screws used shall conform to requirement of I.S. 4218.

For the aluminium windows, the gap between the aluminium frames and the R.C.C / Masonry and also any gaps in the various sections shall be filled with weather silicone sealant DC 795 of Dow Corning or equivalent in the required bite size, to ensure water tightness including providing and fixing backer rod, wherever required. The weather silicone sealant shall be of such approved colour and composition that it would not stain or streak the masonry / R.C.C. work. It should not sag or flow and shall not set hard or dry out under any conditions of weather and shall be tooled properly. The weather silicone sealant shall be used as per the manufacturer's specifications and shall be of approved colour and shade. Any excess sealant shall be removed / cleared. Nothing extra shall be payable for the above.

Fixing of glass panes shall be designed in such a way that replacing damaged / broken glass panes is easily possible without having to remove or damage any members or interior finishing materials.

Stainless steel adjustable heavy duty friction hinges and the aluminium handles for the open able side hung windows shall be of "Earl Bihari" Ebco, make or equivalent as approved by the Engineer-in-Charge. 2 nos. friction hinges shall be provided per shutter.

38. PROTECTIONS AND CLEANING:

All glass panes shall be retained within aluminium framing by use of exterior grade microwave cured EPDM gaskets. Use of glazing or caulking compounds around the perimeter of glass will not be permitted. There shall be no whistling or rattling. Before installation of glass, Contractor shall ensure the following:

All glazing rebates shall be square, to plumb, true to plane, dry and free from dust.

Glass edge shall be clean and cut to exact size and grounded Low „E” – Heat strengthened glass of specified thickness in doors, windows, ventilators and fixed glazing etc. shall be of approved make and standard quality conforming to C.P.W.D. Specifications.

4 mm thick glass panes shall be provided for openings not exceeding 0.5 sqm. For openings exceeding 0.5 sqm in area, 5.0 mm thick glass panes shall be provided unless specified otherwise.

39. Due to Covid-19 Outbreak the following additional conditions the contractor shall follow.

- 1) Standard Operations Procedure (SOPs) and Guidelines for Construction Sites for COVID-19 Outbreak issued vide letter no.2/9/2020-WII/DG/169, dt.05/05/2020, by O/o. Directorate General, CPWD, Nirman Bhawan, Delhi (copy enclosed).
- 2) Preventive Measures to contain the spread of COVID-19 Pandemic guidelines issued from time to time by Government of India, Government of Telangana State, Local Bodies and Client Departments.
- 3) For execution of work, site shall be made available in parts / phased manner.
- 4) The contractor shall make himself aware of above and educate his staff / workmen and provide necessary arrangements accordingly, nothing extra shall be paid on this account.

ENVIRONMENT MANAGEMENT

1. AIR QUALITY

The Contractor shall take all necessary precautions to minimize fugitive dust emissions from operations involving excavation, grading, and clearing of land and disposal of waste. He shall not allow emissions of fugitive dust from any transport, handling, construction or storage activity to remain visible in atmosphere beyond the property line of emission source for any prolonged period of time without notification to the Engineer- in-Charge.

The Contractor shall use construction equipment designed and equipped to minimize or control air pollution.

If after commencement of construction activity, Engineer-in-Charge believes that the Contractor's equipment or methods of working are causing unacceptable air pollution impacts then these shall be inspected and remedial proposals shall be drawn up by the Contractor, submitted for review to the Engineer-in-Charge and implemented.

In developing these remedial measures, the Contractor shall inspect and review all dust sources that may be contributing to air pollution. Remedial measures include use of additional/ alternative equipment by the Contractor or maintenance/modification of existing equipment of the Contractor.

In the event that approved remedial measures are not being implemented and serious impacts persist, the Engineer-in-Charge may direct the Contractor to suspend work until the measures are implemented as required under the Contract.

Contractor's transport vehicles and other equipment shall conform to emission standards fixed by Statutory Agencies of Government of India or the State Government from time to time. The Contractor shall carry out periodical checks and undertake remedial measures including replacement, if required, so as to operate within permissible norms.

The Contractor shall establish and maintain records of routine maintenance program for internal combustion engine powered vehicles and equipment used on this project.

The Contractor shall cover loads of dust generating materials like debris and soil being transported from construction sites. All trucks carrying loose material should be covered and loaded with sufficient free-board to avoid spills through the tail board or side boards.

The Contractor shall promptly transport all excavation disposal materials of whatever kind so as not to delay work on the project. Stockpiling of materials will only be allowed at sites designated by the Engineer-in-Charge. The Contractor shall place excavation materials in the dumping/disposal areas designated by Engineer-in-Charge.

The temporary dumping areas shall be maintained by the Contractor at all times until the excavate is re-utilized for backfilling or as directed by Engineer-in-Charge. Dust control activities shall continue even during any work stoppage.

The contractor shall place material in a manner that will minimize dust production. Material shall be minimized each day and wetted, to minimize dust production. During

dry weather, dust control methods must be used daily especially on windy, dry days to prevent any dust from blowing across the site perimeter.

The Contractor shall water down construction sites as required to suppress dust, during handling of excavation soil or debris or during demolition. The Contractor will make water sprinklers, water supply and water delivering equipment available at any time that it is required for dust control use. Dust screens will be used, as feasible when additional dust control measures are needed specially where the work is near sensitive receptors.

The Contractor shall provide a wash pit or a wheel washing and/or vehicle cleaning facility at the exits from work sites. At such facility, high-pressure water jets will be directed at the wheels of vehicles to remove all spoil and dirt.

2. WATER QUALITY

The Contractor shall comply with the Indian Government legislation and other State regulations in existence so far as they relate to water pollution control and monitoring. A drainage system should be constructed at the commencement of the Works, to drain off all surface water from the work site into suitable drain outlet.

The Contractor shall provide adequate precautions to ensure that no spoil or debris of any kind is pushed, washed, falls or deposited on land adjacent to the site perimeter including public roads or existing stream courses and drains within or adjacent to the site. In the event of any spoil or debris from construction works being deposited or any silt washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer-in-Charge.

The Contractor shall ensure that earth, bentonite, chemicals and concrete agitator washings etc. are not deposited in the watercourses but are suitably collected and residue disposed off in a manner approved by local authorities.

All water and waste products (surface runoff and wastewater) arising on the site shall be collected and removed from the site via a suitable and properly designed temporary drainage system and disposed off at a location and in a manner that will cause neither pollution nor nuisance.

Any mud slurry from drilling, diaphragm wall construction or grouting etc. shall not be discharged into the drainage system unless treatment is carried out that will remove silt, mud particles, bentonite etc. The Contractor shall provide treatment facilities as necessary to prevent the discharge of contaminated ground water.

The Contractor shall discharge wastewater arising out of site office, canteen or toilet facilities constructed by him into sewers after obtaining prior approval of Engineer-in-Charge. A wastewater drainage system shall be provided to drain wastewater into the sewerage system.

The bentonite mixing, treatment and handling system shall be established by the contractor giving due regard to its environmental impacts. The disposal of redundant bentonite shall be carefully considered whether in bulk or liquid form. The disposal location will be advised and agreed with the relevant authorities.

The Contractor shall take measures to prevent discharge of oil and grease during spillage from reaching drainage system or any water body. Oil removal / interceptors shall be provided to treat oil waste from workshop areas etc.

The Contractor shall apply to the appropriate authority for installing bore wells for water supply at site.

3. WASTE MANAGEMENT

The contractor is required to develop, institute and maintain a Waste Management Programme (WMP) during the construction of the project for his works, which may include:-

- (i) Identification of disposal sites.
- (ii) Identification of quantities to be excavated and disposed off.
- (iii) Identification of split between waste and inert material
- (iv) Identification of amounts intended to be stored temporarily on site location of Such storage.
- (v) Identification of intended transport means and route.
- (vi) Obtaining permission, where required, for disposal.

Such a mechanism is intended to ensure that the designation of areas for the segregation and temporary storage of reusable and recyclable materials are incorporate into the WMP. The WMP should be prepared and submitted to the Engineer-in-Charge for approval.

The Contractor shall handle waste in a manner that ensures they are held securely without loss or leakage thus minimizing potential for pollution. The Contractor shall maintain and clean waste storage areas regularly.

The Contractor shall remove waste in a timely manner and dispose off at landfill sites after obtaining approval of Conservancy and Sanitation Engineering Department of Municipal Corporation for its disposal.

Burning of wastes is prohibited. The Contractor shall not burn debris or vegetation or construction waste on the site but remove it.

The Contractor shall make arrangement to dispose of metal scrap and other saleable waste to authorized dealer and make available to the Engineer-in-Charge on request, records of such sales.

4. HAZARDOUS WASTE MANAGEMENT

If encountered or generated as a result of Contractor's activity, then waste classified as hazardous under the "Hazardous Wastes (Management & Handling) Rules, 1989, amendments 2000, 2003" shall be disposed off in a manner in compliance with the procedure given in the rules under the aforesaid act.

Chemicals classified as hazardous chemicals under "Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 of Environment (Protection) Act, 1986 shall be disposed off in a manner in, compliance with the procedure given in the rules under the aforesaid act.

The contractor shall identify the nature and quantity of hazardous waste generated as a result of his activities and shall file a 'Request for Authorisation' with A.P Pollution Control Committee along with a map showing the location of storage area.

Outside the storage area, the contractor shall place a 'display board', which will display quantity and nature of hazardous waste, on date. Hazardous Waste needs to be stored in a secure place.

It shall be the responsibility of the contractor to ensure that hazardous wastes are stored, based on the composition, in a manner suitable for handling, storage and transport. The labeling and packaging is required to be easily visible and be able to withstand physical conditions and climatic factors.

The contractor shall approach only Authorized Recycler of Hazardous Waste for disposal of Hazardous Waste, under intimation to the Engineer-in-Charge.

Submittal of all environment related documents and records pertaining to monitoring and trend analysis on key parameters such as but not limited to consumption/efficient use of resources such as energy, water, material such as cement, fly ash, iron and steel, recycle/reuse of waste etc that shall have demonstrated continual improvement in the implementation of Environmental management System. Failure to do so the employer shall impose appropriate penalty as indicated under penalty clause.

5. ENERGY MANAGEMENT.

The contractor shall use and maintain equipment so as to conserve energy and shall be able to produce demonstrable evidence of the same upon of Engineer-in-Charge request.

Measures to conserve energy include but not limited to the following:

- i) Use of energy efficient motors and pumps.
- ii) Use of energy efficient lighting, which uses energy efficient luminaries.
- iii) Adequate and uniform illumination level at construction sites suitable for the task.
- iv) Proper size and length of cables and wires to match the rating of equipment.
- v) Use of energy efficient air conditioners.

ANNEXURE-III

**GUARANTEE BOND TO BE EXECUTED FOR REMOVAL OF DEFECTS AFTER COMPLETION
IN RESPECT OF WATER PROOFING WORKS.**

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

WHEREAS this agreement is supplementary to a contract (here in after called the contract), dated _____ and made between the GUARANTOR of the ONE part and the GOVERNMENT of the other part, whereby the contractor, interalia, undertook to render the buildings and structures in the said contract recited completely water and leak- proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for **FIVE years** to be reckoned from the date after the maintenance period prescribed in the contract.

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

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

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

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

That if the Guarantor fails to execute the waterproofing 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 reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on the parties.

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

SIGNED, sealed and delivered by (OBLIGOR) in the presence of.

- 1.
- 2.

Signed for and on behalf of the PRESIDENT OF INDIA by _____ in presence of:

- 1.
- 2.

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I - Nil
O - Nil
C - Nil

**GUARANTEE BOND TO BE EXECUTED FOR REMOVAL OF DEFECTS AFTER COMPLETION
IN RESPECT OF ALUMINIUM WORK FOR DOORS, WINDOWS, VENTILATORS /
STRUCTURAL GLAZING WORK**

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

WHEREAS THIS agreements is supplementary to a contract (hereinafter called the Contract) dated _____ and made between the GUARANTOR OF THE ONE part and the Government of the other part. Whereby the contractor interalia, undertook to render the work in the said contract recited structurally stable leak proof and sound material, workmanship, anodizing, coloring, sealing.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable, leak proof and guaranteed against the faulty material and workmanship defective anodizing coloring and finishing for **Five years** from the date after the maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantees that the work executed by him will remain structurally stable leak proof and guaranteed against faulty material and workmanship defective anodizing and coloring for the minimum life to **Five years** to be reckoned from the date after the maintenance period prescribed in the contract.

The decision of the Engineer – in – Charge with regard to cause of defect shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect to the satisfaction of Engineer – in – Charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer – in – Charge calling upto him to rectify the defects failing which the work shall be got done by department by some other contractor at guarantors cost and risk. The decision of the Engineer – in – Charge as to the cost, payable by the Guarantor shall be final and binding.

That if Guarantor fails to make good all the defects, 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 reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement.

As to the amount of loss and / or damage and / or cost incurred by the Government the decision of the Engineer – in – Charge will be final and binding on parties.

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

SIGNED SEALED AND delivered by OBLIGATOR in the presence of:-

- 1.
- 2.

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY _____ in presence of: -

- 1.
- 2.

GOVERNMENT OF TELANGANA

ABSTRACT

Mines and Minerals - Revision of Rates of Seigniorage Fee and Dead Rent - Orders - Issued.

INDUSTRIES AND COMMERCE (MINES.I) DEPARTMENT

G.O.MS.No.67

Dated: 26/09/2015

Read the following

- 1) G.O.Ms.No.198, Industries & Commerce (M.I) Dept., dt: 13.08.2009
- 2) Government Memo No,418/M .1(1)/2015, dated: 08.07.2015.
- 3) From the Director of Mines and Geology, Hyderabad Letter No.3305/MR/2014, dated: 08.07.2015.

ORDER:

The following notification will be published in the Extra-Ordinary Issue of the Telangana Gazettee dated:the 26th September, 2015.

NOTIFICATION

In exercise of the powers conferred by Section Sub-Section (1) of 15 of the Mines & Minerals (Development & Regulation) At, 1957 (Central Act NO.67 of 1957), the Government of Telangana hereby issue the following amendments to the A.P. Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No.1172, Industries & Commerce (Mines-I) Department, dated:04-09-1967 and as amended subsequently from time to time and as adapted vide G.O.Ms.No.55, Industries & Commerce (Mines.I) Department, dated:26.08.2015 as A.P. Minor Mineral Concession Rules, 1966 (Telangana Adaptation) order, 2015.

AMENDMENTS

In the said rules, under rule 10 for Schedules I and II the following shall be substituted, namely:

SCHEDULE-I**RATES OF SEIGNIORAGE FEE**

Sl. No.	Name of the Minor Mineral	Unit	Rate of Seigniorage fee (In Rupees)
1	Building Stone, Rough Stone/ Boulders, Road Metal and Ballast	M3/MT	75/50
2	Dimensional Stone used for Kerbs & Cubes	MT	100/MT
3	Lime Kankar/ Limestone	MT	The rate of royalty as applicable to Limestone (other than LD Grade) in respect of major Minerals as per the 2 nd Schedule of the Mines & Minerals (D&R) Act, 1957.
4	Marble	M3/MT	250/100
5	Mosaic chips	MT	45
6	Morrum/Gravel & Ordinary Earth	M3/MT	30/20
7	Ordinary Sand	M3/MT	40/27
8	Shingle	M3/MT	25/17
9	Chalcedony Pebbles	M3/MT	75/50
10	Fullers Earth/ Bentonite	MT	150
11	Shale/Slate	MT	150
12	Rehmatti	MT	25
13	Limestone slabs	M2/MT	8/100
14	Brick Earth used in the manufacture of Bricks including Mangalore Tiles.	-	Rs.6000/- per kiln per annum
15	Granite useful for cutting and	Gangsaw above	Below 270 X Equal and below 70

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I - Nil
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C - Nil

	polishing	270 x above 150	below 150	
a	Black Granite	3000	2300	1200
b	Colour Granite	2300	2000	1000

The rates shown at SI.No.15 shall come into force w.e.f., two years from the date of this G.O. until then the rates ordered in G.O.Ms.No.198, Industries & Commerce (M.I) Dept., dt: 13.08.2009 shall continue to be inforce.

SCHEDULE-II
Rates of Dead Rent

Sl. No.	Name of the mineral	Rate of Dead Rent per hectare per Annum (in Rs.)
1	Black Granite	1,00,000
2	Colour Granite	80,000
3	Limestone other than classified as Major Minerals used for Lime burning or building construction purposes, Marble, Boulders, Building Stone including Stone used for Road Metal, Fullers Earth, Ballast Concrete and other Constructions purposes, Slate and Pyllites.	50,000
4	Gravel Morrum, Shingle, Limestone Slabs, used for Flooring purposes, Chalcedeny Pebbles used in the building purposes, Limeshell for burning used for building purposes and Rehmatti.	40,000

2. The rate of royalty revised by Government of India with effect from 01.09.2014 in respect of (31) Major Minerals now declared as Minor Minerals and transferred to the State Government in the extra-ordinary issue of the Gazette Government of India Notification No.423(E) dated: 10.02.2015 shall be continued, until further orders.

3. This order issues with the concurrence of Finance Department vide their U.O.No.11350/292/EBS-VII/I&C/2015, dated: 18-09-2015.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

ARVIND KUMAR
SECRETARY TO GOVERNMENT & CIP

To,

The Commissioner of Printing, Stationary & Stores Purchase (Ptg. Wing) Hyderabad. (He is requested to publish the above Notification in the Extra-Ordinary issue of Telangana Gazette, and arrange to send 1000 copies of the same to Government in Industries & Commerce (M.I) Department).

The Director of Mines and Geology, Telangana State, Hyderabad

The Vice Chairman & Managing Director, Telangana State Mineral Development Corporation Ltd., Hyderabad.

All the Joint Director/Deputy Director/Assistant Directors of Mines and Geology through the Director of Mines and Geology, Hyderabad

Copy to:

The Secretary to Government, Ministry of Mines, GoI

The Law (A) Department.

The Finance Department.

The Industries and Commerce (Mines.II) Department.

The P.S. to Hon'ble Minister for Mines and Geology.

The P.S. to Secretary to Government & CIP, Ind. & Com. Dept.,

SF/Sc. (C.No.418/M .I(1)/2015)

/ /Forwarded: : By order/ /

SECTION OFFICER

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I - Nil
O - Nil
C - Nil

GOVERNMENT OF TELANGANA
DEPARTMENT OF MINES AND GEOLOGY::HYDERABAD

Letter No.3744/MR(DMF)/2016

Dated:23.11.2019

From:
Sri Jayesh Ranjan, IAS,
Director of Mines & Geology (FAC),
2nd Floor, Myhome Sarovar Plaza,
Opp: Secretariat, Hyderabad.

To
The Chief Engineer,
(P.W.D) Central Public works
Department. Kendriya Sadan, Sultan
Bazar, HYDERABAD.

Sir,

Sub: Mines and Quarries – Remittance of Seigniorage Charges,
Contribution towards District Mineral Foundation Trust (DMFT)
@30% on Seigniorage Fee and State Mineral Exploration Trust
(SMET) @2% on seigniorage fee – Issue of necessary
instructions to the concerned - Requested - Reg.

- Ref: 1. G.O.Ms.No.67, Ind. & Com.(M.I)Dept., dated 26-09-2015.
2. This office Letter No.1942/MR/2014, Dated 01.10.2015.
3. G.O.Ms. No. 3, Ind.& Com.(M.I)Dept., dated 20-01-2016.
4. This office Letter No.1046/P/2015-1, Dated 21.03.2016.
5. G.O.Ms. No. 71, Ind.& Com.(M.I)Dept., dated 30-11-2016.
6. This office Letter No.8304/MR(SMET)/2016, Dated 17.12.2016.
7. This office Letter No.4272/MR/2017-1, Dated 06.09.2017.
8. G.O.Ms. No.38, Ind.& Com.(M.I)Dept., dated 31-05-2018.
9. Lr No.3444/DMF/HYD/2018, dt14.11.2018 from DDM&G,
Hyderabad.
10. DM&G Lr No.4056/MR/2018, dated 15.12.2018.
11. DMF collections from Directorate of Works Accounts for the
month of Oct'19.

I invite attention to the subject & references cited. Through the reference 8th cited the Govt. issued certain amendments to District Mineral Foundation (Trust) Rules, 2015. As per amended Sub-rule 13.1.4.3 of Telangana State District Mineral Foundation Trust Rules, 2018: **"An amount equivalent to 30 percent on Seigniorage Fee shall be recovered by the Govt. Engineering/Consuming Depts. alongwith Seigniorage Fee from contractor work bills on the quantity of minor mineral consumed in the construction and remitted to District DMF account for any civil work(s) entered agreement for execution on or after first April 2018."**

Further, through the reference 10th cited, the Dept., requested to arrange to issue instructions to all the Govt. Engineering/Consuming Depts. concerned for remittance of Seigniorage Charges in treasury Head of Account (0853-102-02) in respective DDO codes alongwith non-treasury linked payments i.e., contribution towards District Mineral Foundation @ 30% on Seigniorage charges in respective DMF Trust account (Bank account) alongwith ADMG contact no., DMF bank account details, address,...etc. alongwith 2% on seigniorage fee towards State Mineral Exploration Trust (SMET) to the bank account at SBI, Adarshnagar, Hyderabad.

But it is noticed from the Statement received from the Directorate of Works & Accounts, Hyderabad that the DMF collections pertaining to Govt. Engineering/Consuming Depts. for the month of Oct'19 and it is found that

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C - Nil

the Govt. Engineering/Consuming Depts. are still remitting 10% on seigniorage fee as DMF as against the 30% on seigniorage fee as per the G.O.Ms. No.38, dated 31.05.2018 w.e.f.01.04.2018 for any new work entered agreement.

In view of the above, it is once again requested to issue necessary instruction to the Chief Engineer for remittance of non-treasury linked payments i.e., contribution towards District Mineral Foundation @ 30% on Seigniorage charges in respective DMF Trust account (Bank account) as per copy enclosed (i.e. ADMG contact no., DMF bank account details, address,...etc).

Encl: As above.

Yours faithfully
Sd/- Jayesh Ranjan, IAS
Director of Mines & Geology (FAC)

// Attested //

[Signature]
for Director of Mines & Geology

Copy to the Director, Directorate of Works & Accounts, AC Guards, Hyderabad for information and necessary action.

Copy to all Asst. Directors of Mines and Geology in the State for information and necessary action.

Copy to the Deputy Director of Mines and Geology, Warangal, Hyderabad & Nizamabad for information.

Copy to P-Section for information.

स.प्र.अ.	अ.अ.	का.अ.प्रि.	मु.अ.
AAO	S.O.	EE(Civil)	CE
	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

Circulate to
all (S)-3 AU EEs

Fr. 23(M.K.) / CG-Hyd/2019/

dt. 1.1.2020

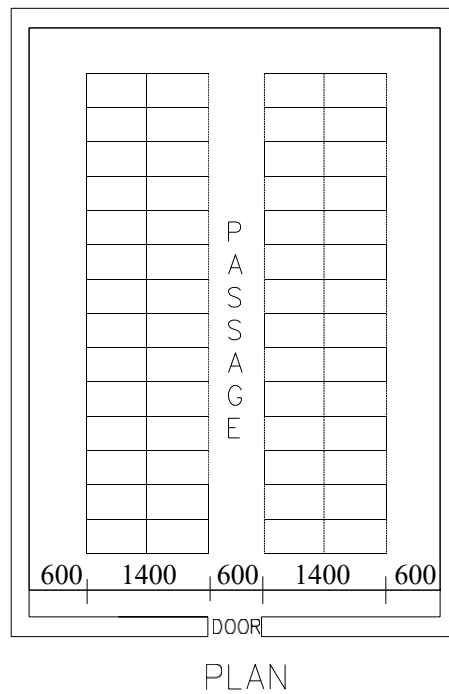
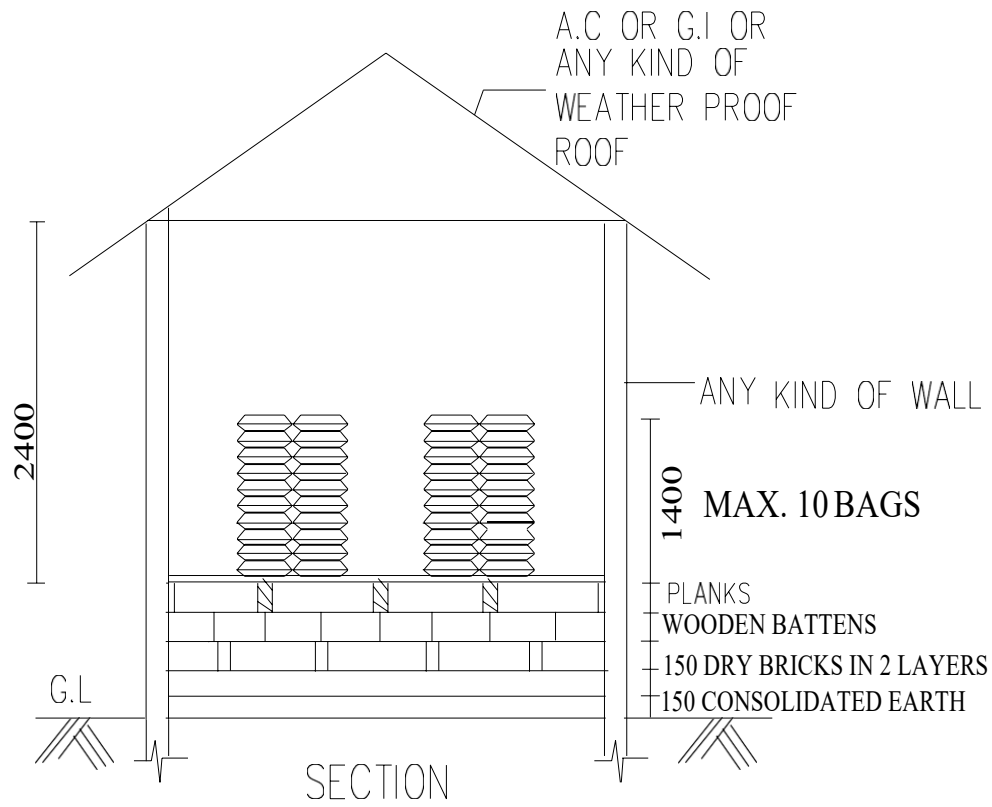


Copy to

- ① EE, Hyd-I for information & necessary action
- ② E.E. Hyd-II - for information & necessary action
- ③ EE, Hyd-III - for information & necessary action
- ④ EE, Hyd-IV for information & necessary action

[Signature]
EE(C) % CG-Hyd
A. C. Hyd

CLAUSE 3.1.2.2



DRAWING IS NOT TO SCALE.
DIMENSIONS ARE IN MM.

SCHEDULE OF QUANTITIES

Name of Work: Supply and fixing of Gym flooring at Ground Floor in DJC Bldg in Site-B of SVP NPA Hyderabad.

Sl.No.	DSR 2023	Description of Item	Unit	Qty	Rate	Amount
1	NSR	Supply and fixing Carpet floor tiles of total thickness 5mm , eco backing and total weight 2600 gram per sqm of reborn series Cat No.RB02-STAR BURST or equivalent with necessary approved adhesive etc complete all as per the directions of Engineer in charge.	Sqm	145.00	1,455.97	211116.00
2	NSR	Supply and fixing Rubber flooring of total thickness 20mm of approved make, colour and size with necessary approved adhesive etc complete all as per the directions of Engineer in charge.	Sqm	73.00	2,025.69	147875.00
3	NSR	Supply and fixing PVC Vinyl flooring of total thickness 4.50mm of make WONDERFLOOR or equivalent, weight 3.30 kg/sqm with PUR protection and approved colour and size including necessary approved adhesive etc complete all as per the directions of Engineer in charge.	Sqm	61.00	2,278.90	139013.00
4	NSR	Supply and fixing PVC Vinyl flooring of total thickness 6.50mm of make WONDERFLOOR or equivalent, weight 4.30 kg/sqm with PUR protection and approved colour, size and marking as per approved drawings including necessary approved adhesive etc complete all as per the directions of Engineer in charge.	Sqm	19.00	2,848.63	54124.00
		Total				552128.00

**ASSISTANT EXECUTIVE ENGINEER
HCSD.I/4, CPWD, Hyd.**

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I - Nil
O - Nil
C - Nil

ABSTRACT OF SCHEDULE

<u>Name of Work: -</u>		Supply and fixing of Gym flooring at Ground Floor in DJC Bldg in Site-B of SVP NPA Hyderabad.			
NIT No. 25/2026-27/HYD-I/Hyderabad/4					
Estimated Cost put to tender (Rs.)			Rs. 5,52,128/-		
Name of the Contractor, Address, e-mail Id & Phone No.					
Sl.No.	Name of component	Estimated cost	percentage above / below or at par the estimated cost	% in Figures	Total Cost
1	Civil	Rs. 5,52,128/-			
	Total Cost	Rs. 5,52,128/-			-
Important Note: 1. The Percentage rate quoted by the tenderer shall be firm and inclusive of <u>GST & all other applicable taxes, duties, cess, levies, Octroi etc.</u> in respect of this contract and Government shall not entertain any claim whatsoever in this respect. 2. The Estimated Cost Put to Tender has been worked out by taking into consideration the Cost Index of Hyderabad for DSR 2023 items and considering the Market Rates for NSR items. 3. The tenderer is required to quote a single consolidated Percentage only above/below 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. 4. The Percentage shall be typed only in figures upto 2 (two) places of decimal along with algebraic sign. 5. The tenderer shall enable the macros before entering the figures, to see the quoted percentage and amount in words. 6. 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.					

Signature of Contractor
Address

ASSISTANT EXECUTIVE ENGINEER
HCSD.I/4, CPWD, Hyderabad

AE

I - Nil
O - Nil
C - Nil