GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE OF EXECUTIVE ENGINEER
CHENNAI 1 DIVISION
CHENNAI-06

NOTICE INVITING E-TENDER

Name of work:- Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

NIT No. 40/EE/C1D/CPWD/CHENNAI/2024-25

ECPT: Rs. 85,04,375/-

(Civil: Rs. 70,62,033/-+ Electrical: Rs. 14,42,342/-)

Addition: **NIL** Correction: **NIL** Overwriting: **NIL** Deletion: **NIL** **AE(P)** **EE(C)**

INDEX

Sl No	DETAILS	Pages
1	Index	2
	PART A	3
1	Notice inviting e-tender	4-5
2	Information and Instructions for Bidders For E- Tendering	6-8
3	Notice Inviting Tender (CPWD –6 for e-tendering)	9-15
4	Percentage Rate Tender & Contract for Works (CPWD-7)	16-17
5	Proforma of Schedules	18-23
6	Table: I Equipments for Testing of Materials & Concrete at Site Laboratory	24-25
7	Table: II Plant and Equipment required to be owned / taken on lease by the contractor	26-27
8	Form of BG for EMD/PG/SD/Mobilization Advance	28-29
9	Annexure I (Receipt for Deposition of Original EMD)	30
10	Form G	31
11	Form H	32
12	Annexure II (Declaration about Site Inspection)	33
13	Annexure III (Details of Contractor)	34
	PART B	35
1	General Conditions	36-40
2	Additional Conditions	41-42
3	Particular Specification and Special Conditions for Cement & Steel brought by the contractor	43-48
	RCC Concrete from Fully automatic computerized concrete batching plant	49-53
5	Particular specification and additional conditions for water proofing work	54-56
	PART-C: E & M Works.	57
1	Schedule A to F (E & M component)	58-64
2	Special conditions & Eligibility Criteria for E&M works	65-68
3	Form "G", "H", "I"	69-72
4	Technical Specifications	73-78
5	Additional Conditions	79-80
3	List of Approved Makes of materials (Electrical)	81-86
	PART D	87
1	Schedule of Quantity for Civil & Electrical	88-118
2	Schedule of Quantities (Percentage Rate) for Quoting of Rates by Agency	119
4	List of Approved Makes of materials (Civil) Annexure IV	120-153
3	GCC for Construction Works 2023 amended up to last date of submission of bids	154-297

Certified that the NIT contains **297** pages only.

NIT is approved for Rs 85,04,375/- (Civil: Rs. 70,62,033/-+ Electrical: Rs. 14,42,342/-)

Assistant Engineer (P)
C1D, CPWD, Chennai 06

Executive Engineer (C)
C1D, CPWD, Chennai 06

Addition: **NIL** Correction: **NIL** Overwriting: **NIL** Deletion: **NIL** **AE(P)** **EE(C)**

PART– A

COMPOSITE PERCENTAGE RATE N.I.T

NIT No. 40/EE/C1D/CPWD/CHENNAI/2024-25

Name of work:	Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.
Composite Estimated Cost	**Civil Components: Rs. 70,62,033/-**
	Elect. Components: Rs. 14,42,342/-
	TOTAL: Rs. 85,04,375/-
Earnest Money	**Rs. 1,70,088/-**
Performance Guarantee	5% of tendered value.
Security Deposit	**2.5% of Tendered Value**
Time Allowed	**06 (Six) Months**

It is certified that this composite NIT contains Pages 01 to 297 only.

This composite NIT is approved for Rs. 85,04,375/- (Rupees Eighty Five Lakhs Four Thousand Three Hundred and Seventy Five Only).

Assistant Engineer(P) **Executive Engineer(C)**

Addition: **NIL** Correction: **NIL** Overwriting: **NIL** Deletion: **NIL** **AE(P)** **EE(C)**

NOTICE INVITING e- TENDER.

The Executive Engineer (C), Chennai 1 Division, Central P.W.D, Chennai 06 on behalf of President of India invites **online Percentage rate bids** from CPWD enlisted contractors of appropriate class in Buildings &Roads category in Single bid system for the following work.

NIT No. 40/EE/C1D/CPWD/CHENNAI/2024-25

Name of work: Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

Estimated Cost:**Rs. 85,04,375/- (Civil: Rs. 70,62,033/-+ Electrical: Rs. 14,42,342/-)**

Earnest Money:**Rs. 1,70,088/-**

Time Period for Completion:**(06) Six Months.**

Last time and date of submission of Bid up to **15:00Hrs. on (04.12.2024)**

The Tender forms and other details can be obtained from the following Web Sites:

www.etender.cpwd.gov.in
or
www.cpwd.gov.in
or
www.eprocure.gov.in.

Executive Engineer (C)
C1D, CPWD, Chennai-06

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

(Application for inviting open Bids)

The Executive Engineer (C), Chennai 1 Division, Central P.W.D, Chennai 06on behalf of President of India invites **online Percentage rate bids** from CPWD enlisted contractors of appropriate class in Buildings &Roads category in Single bid system for the following work.

Sl. no	NIT No	Name of work & Location	Estimated cost put to bid Rs.	Earnest Money Rs.	Period of completion	Last date and time of submission of bid online	Time and date of opening of bid
1	2	3	4	5	6	7	9
1	40/EE/C1D/CPWD/CHENNAI/2024-25	Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.	Rs. 85,04,375/- (Civil: Rs. 70,62,033/-) (Electrical: Rs. 14,42,342/-)	Rs. 1,70,088/-	06 (Six) Months	Up to 15:00Hrs. on (04.12.2024)	At 15:30 Hrs. on (04.12.2024)

Addition: **NIL** Correction: **NIL** Overwriting: **NIL** Deletion: **NIL** **AE(P)** **EE(C)**

1. The intending bidder must read the terms and conditions of CPWD Form –6 carefully. He should only submit has 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 documents.
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**at 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 Demand Draft or Pay order or Bankers Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any scheduled Bank towards EMD in favour of the **Executive Engineer, Chennai 1 Division, CPWD, Chennai,** receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD and other documents as specified.
5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials, including the videos with step-to-step process are available on download section of www.etender.cpwd.gov.in. If needed they can be imparted training on online bidding process as per details available on the website.
6. The intending bidder must have valid Class – III digital signature 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 www.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 on 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. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

1. **List of Documents to be submitted by the tenderers in various forms to be scanned and uploaded in JPG format or PDF format within the period of Tender submission.**

1. Copy of receipt for deposition of original Earnest Money Deposit (EMD) to division office of any Executive Engineer, CPWD. **(Annexure I)**
2. Copy of Earnest Money Deposit (EMD).

   (Treasury challan /Demand Draft/Pay order or Banker`s Cheque /Deposit at Call Receipt/Bank Guarantee of any Scheduled Bank against EMD)
3. **CPWD Enlistment order of the contractor** (Appropriate Category).
4. **GST Registration Certificate**, if already obtained by the bidder.

   If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents.

   " If work is awarded to me, I/we shall obtain GST registration Certificate as applicable, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard."
5. Notarized affidavit of **"No-black listing by CPWD/State/Central Departments/PSU/Autonomous bodies"** as per **Form "H"** on Non-Judicial Stamp Paper of Rs. 100/- duly signed by the authorized person of agency / firm, **not older than the date of Notice Inviting Tender.**
6. Notarized Affidavit of **"No back -to-back execution of work"** as per **Form "G"** on Non-Judicial Stamp Paper of Rs. 100/- duly signed by the authorized person of agency / firm, **not older than the date of Notice Inviting Tender.**
7. Declaration about site inspection as per **Annexure II.**
8. Details of Contractor as per **Annexure III.**

2. **Document to be submitted after acceptance of bid:**

   1. Licenses/Registrations or proof of applying for labour licenses, registration with EPFO, ESIC.

Executive Engineer (C),
C1D, CPWD, Chennai-06

C.P.W.D. - 6 FOR e – TENDERING.

1. The Executive Engineer (C), Chennai 1 Division, Central P.W.D, Chennai 06 (Email: chneeccd1.cpwd@gov.in)on behalf of President of India invites **online Percentage rate bids** from CPWD enlisted contractors of appropriate class in Buildings &Roads category in Single bid system for the following work of"Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai."

The enlistment of the contractors should be valid on the last date of submission of Tenders.

In case the last date of submission of tender is extended, the enlistment of Contractor should be valid on the original date of submission of tenders.

1.1. The work is estimated to cost of **Rs. 85,04,375/-**
(Civil: Rs. 70,62,033/-+ Electrical: Rs. 14,42,342/-)
This estimate cost, 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 tenders. He will also nominate Division which will deal with all matters relating to the invitation of tenders.

For composite tender, besides indicating the combined estimated cost put to tender should clearly indicates the estimated cost of each component separately. The eligibility of tenderer will correspond to the combined estimated cost of different components put to tender.

1.2. Intending tenderer is eligible to submit the tender provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:

~~Criteria of eligibility for submission of bid documents~~

~~1.2.1 Conditions for Non-CPWD registered contractors only, if bids are also open to non-CPWD Contractors. For works estimated cost upto tendering limit of class -I Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class I contractors of Horticulture category).~~

~~(i) Three similar works each of value not less than Rs..... or two similar works each of value not less than Rs..... or one similar work of value not less than Rs..... (All figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.~~

~~(ii) For EPC tender under Mode- I/II only (Applicable for CPWD enlisted contractors of appropriate class also). One completed work costing not less than Rs. .... executed with the structural system technology as proposed by bidder in the letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.1 (i) above or as a separate work.~~

~~**Note:**- For works costing above tendering limit of class -II Buildings & Roads(erstwhile Composite/ Building/ infrastructure)category contractors but upto tendering limit of Class I Buildings & Roads(erstwhile Composite/ Building/ infrastructure)category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class II and CPWD Class I contractors respectively of Horticulture Category) when bids are open to non-CPWD contractors also, then class II contractors of CPWD registered shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.~~

~~1.2.2 Criteria of eligibility for CPWD as well as non-CPWD contractors,~~

~~For works estimated to cost above the tendering limit of class -I (Super) Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However for Horticulture category, it may be modified as per bidding limit of CPWD class I contractors of Horticulture Category).~~

~~(i) Three similar works each of value not less than Rs..... or two similar works each of value not less than Rs.....or one similar work of value not less than Rs.....(all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.~~

~~(ii) For EPC tender under Mode- I/II only (Applicable for CPWD enlisted contractors of appropriate class also). One completed work costing not less than Rs .....executed with the structural system technology as proposed by bidder in letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.2 (i) above or as a separate work.~~

~~The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid. This is applicable for 1.2.1 as well as 1.2.2 (Para 1.2.1(i) and Para 1.2.2(i) are not applicable for CPWD enlisted contractors of appropriate class. Para 1.2.1(ii) and Para 1.2.2(ii) are also applicable for CPWD enlisted contractors of appropriate class).~~

To become eligible for issue of tender, the tenderer shall have to furnish an affidavit on Non-Judicial Stamp Paper as under: -

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, 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. (**Scanned copy to be uploaded at the time of submission of tender**).

2. Agreement shall be drawn with the successful tenderers on prescribed Form No. CPWD 7 (or other Standard Form as mentioned) which is available as a Government of India Publication and also available on website www. CPWD.gov.in. Tenderers shall quote his rates as per various terms and conditions of the said form which will form part of agreement.

3. The time allowed for carrying out the work will be **06 (Six) MONTHS** from the date of start as defined in Schedule "F" or from the first date of handing over the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.

4. (i) The site for the work is available.

~~or The site for the work shall be made available in parts as specified below: -~~

~~(ii) The architectural and structural drawing for the work is available or~~

~~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 work.~~

5. The tender 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 contractor to be complied with and other necessary documents except Standard General Conditions of Contractor Form can be seen from website www.etender.cpwd.gov.in or www.cpwd.gov.inat 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. Earnest Money of **Rs. 1,70,088/-**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 the **Executive Engineer, Chennai 1 Division, CPWD, Chennai**) 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) shall issue a receipt of deposition of earnest money deposit to the bidder in an enclosed format (Annexure I) uploaded by tender inviting EE in the NIT.

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

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

   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 03:30 PM on 04.12.2024.

9. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:

i. The bidder is found ineligible.

ii. The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD (The EMD document shall only be issued from the place in which the office of receiving division office is situated).

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 bid 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.

10. The contractor, whose tender is accepted, will be required to furnish performance guarantee of **5% (Five percent)**of the tendered amount within the period of 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 of 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. 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 anyengaged by the contractor for the said work within the period specified in Schedule F.

11. Intending Tenders are advised to inspect and examine the nature of services under consideration in this NIT and its surroundings and satisfy themselves before submitting their tenders as to the condition of the equipment, the means to access the premises, 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 tender. A tenderer shall be deemed to have full knowledge of the serviceswhether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The tenderer 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 tender by a tenderer implies that he has read this notice and all contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rate 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.

12. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.

13. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

14. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

15. The contractor shall not be permitted to tender for works in the CPWD Circle (Division in case of Contractors of Horticulture/ Nursery category) responsible for award and execution of contracts, 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 officers in the Central Public Works Department or in the ministry of urban Development. Any breach of this condition by of contractors of this Department.

16. No Engineer of gazette rank or other gazette officers employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for the period of one 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 tender or engagement in the contractor's service.

17. The tenders for the work shall remain open for acceptance for the period of **Thirty(30) days**from the date of opening of tenders **in case of single bid system**~~Ninety days(90)from the date of opening of technical bid in case tenders are invited on 2 bid/envelope system/ One hundred twenty (120) days from the date of opening of technical bid in case bids are invited on **3 bid/envelope system** for specialized work. (Strike out as the case may be)~~.

    (i) If any tenderer withdraws his tender or makes any modifications in terms and conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, them the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

    (ii) If any tenderer withdraws his tender or makes any modification in the terms and conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, them 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 Ernest money as prescribed in above para, the bidders shall not be allowed to participate in the rebidding process of the same work.

18. This notice tender shall from the part of the contract document. The successful tenderer/ Contractor, on acceptance of his tender by the Acceptance Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -

    a) The notice Inviting Tender, all the documents including additional condition, specification, and drawing, if any, forming part of the tender as uploaded at the time of invitation of tender and the rate quoted online at the time of submission of bid and acceptance thereof together with anycorrespondence leading thereto.

    b) Standard C.P.W.D Form 8 or other Standard C.P.W.D Form as mentioned.

For Composite Bids: -

19. 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.

20. The bid document will include following FOUR components:

Part A:

CPWD-6, CPWD Form- 7 including Schedule 'A' to 'F' for the major and minor component of the work, Standard General Conditions of Contract for CPWD 2020 as amended/ modified up to last date of submission of tender.

Executive Engineer in charge of major component shall also be competent authority under clause 2 and clause 5 as mentioned in Schedule 'A' to 'F' for major and minor components.

Part B:

General / specific conditions, specifications, safety measures etc., applicable to major component(s) of the work.

Part C:

General terms and Conditions&Special Condition for E & M work.

Part D:

Schedule of Quantities for Civil Work (Major Component) and Schedule of Quantities for Electrical works (Minor Component).

21. The bidders must associate himself, with agencies of the appropriate class eligible to bid for each of the minor component individually and as per NIT conditions.

22. **The eligible Bidders shall quote Percentage ratewhich shall include rates for all items of major component as well as for all items of minor components of work as mentioned in Part-D for Civil and Electrical Component**.

23. 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 EEs in charge of minor components. One such signed set of agreement shall be handed over to EE in - charge of minor component.

Three of major component (i.e., Civil works) will operate Part A, Part B and Part D (Schedule of Quantity for Civil component) of the agreement. EE in charge of minor component(s) (i.e., Electrical works) shall operate Part C along with Part A and Part D (Schedule of Quantity for Electrical component) of the agreement.

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

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

26. 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).

27. In case the main contractor intends to change any of the above agency/agencies duringthe operation of the contract, he shall obtain prior approval of Engineer- in-charge of minor components.

The new agency / agencies shall also have to satisfy the laid down eligibility criteria. In case the 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.

28. The main contractor has to enter into agreement with the contractor(s) associated by him for execution of minor components(s) Copy of such agreement 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 contractor has to enter into agreement with the new contractor associated by him.

29. Running payment for the major component shall be made by EE or 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 the main contractor.

30. **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 by the concerned Executive Engineer(s) in charge of minor components of the work.**

31. The 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 the final bill for composite contract.

32. Goods and Service Tax (GST) applicable in respect of this contract shall be payable by the contractor and the Government will not entertain any claim whatsoever in respect of thesame.

33. The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issues related to updating profile / uploading tender can be resolved through the concerned Executive Engineer / Assistant Engineer (Email id: chneeccd1.cpwd@gov.in) or ERP help line no: 18001803286 or email id :cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issues till the last date if submission of bid in their own interest.

Executive Engineer (C),
C1D, CPWD, Chennai-06

CPWD- 7

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: Tamil Nadu **ZONE: CE Chennai**

BRANCH: B & R **DIVISION: C1D** **SUB-DIVISION: AE(C)-3**

Percentage Rate Tender & Contract for Works

Tender for the work of: Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

Last date and time of submission of e-tenders shall be up to **15.00 Hrs.** on(04.12.2024).

To be opened in the presence of tenderers who may be present at **15.30 Hrs.on**(04.12.2024)in the office of **O/o EE/C1D/CPWD/Chennai 06.**

e-TENDER

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

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

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

I/We have deposited EMD of **Rs. 1,70,088/-** in the office of the concerned Executive Engineer as per the bid document.

A copy of earnest money in receipt treasury challan/deposit at call receipt of a scheduled bank/fixed depositreceipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank isscanned 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 moneyabsolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or thesuccessors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit thesaid performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute allthe works referred to in the tender documents upon the terms and conditions contained or referred to those inexcess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/Weshall 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 authorised to communicate the same or use the information in any manner prejudicial to the safety& integrity of the State.

Dated…….

Signature of contractor
Postal Address

Witness:

Address:

Occupation:

ACCEPTANCE

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

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

i)

ii)

ii)

For & on behalf of the President of India.

Signatures……

Dated…… Designation……

PROFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of quantities: **As per separate schedule attached.**

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

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

SCHEDULE 'C'

Tools and plants to be hired by the contractor.

Sl. No.	Description of item	Quantity	Hire charges per day	Place of issue
1	2	3	4	5
----------NIL -------				

SCHEDULE 'D'

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

SCHEDULE 'E'

Reference to General Conditions of contract.

General Conditions of Contract 2023 for Construction Works with amendments up tothe last date of submission of bid.

Name of work: Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

Estimate cost of work: **Rs 85,04,375/- (Civil: Rs. 70,62,033/-+ Electrical: Rs. 14,42,342/-)**

i) Earnest money : **Rs. 1,70,088/-**

(To be returned after receipt of Performance Guarantee)

ii) Performance Guarantee : **5% of tendered value.**

iii) Security Deposit : **2.5% of tendered value.**

SCHEDULE 'F'

General Rules & Directions:

Officer inviting tender :**EE (C) / C1D / CPWD/ Chennai 06.**

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

Civil Works :**EE (C) / C1D / CPWD/ Chennai 06.**

Electrical Works :**EE (E) / CED / CPWD/ Chennai 06**

2 (viii) Accepting Authority :**EE (C) / C1D / CPWD/ Chennai 06.**

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

2 (xi) Standard Schedule of Rates

Civil Works : **DSR 2023 with amendments up to last date of submission of bids.**

Electrical Works : **DSR 2022with amendments up to last date of submission of bids.**

2(xii) Department : **Central Public Works Department**

9 (ii) Standard Contract FormGCC 2020, CPWD Form 7/8 as modified & corrected up to

: **CPWD Form 7 & General Conditions of Contract 2023 for Construction works corrected up-to the last date of submission of bids.**

Clause 1

i) Time allowed for submission of Performance Guarantee,Programme chart (Time and progress) and applicable labour license, registration with EPFO, ESIC and BOCW welfare board or proof ofapplying thereof from the date of issue of letter of acceptance : **7 (Seven) days**

ii) Maximum allowable extension with late fee @0.1% per day of performance Guarantee amount beyond the period (provided in i) above : **3 (Three) days**

Clause 2

Authority for fixing compensation under Clause 2: **CE CHENNAI/CPWD/CHENNAI 90**

Clause 2A

Whether clause 2A shall be applicable : **NOT APPLICABLE**

Clause 5

Number of days from the date of issue of letter acceptance for reckoning date of start & Milestones as per table given below : **10 Daysor date of handing over of site whichever is later.**

Milestone(s): -

Sl. No.	Description	Time in days from date of start of work	Amount to be withheld in case of non-achievement of Mile(s) Stone
1.	1/8th of the tendered amount of whole work	1/4th time of whole work.	In the event of not achieving the necessary progress as assessed from the running payments, **1.25%** of the tendered value of work will be withheld for failure of each milestone
2.	3/8th of the tendered amount of whole work	1/2thtime of whole work.	
3.	3/4th of the tendered amount of whole work	3/4th time of whole work.	
4.	Full scope of the tendered amount of whole work	Full Time of whole Work.	

Time allowed for execution of work : **06 (Six)Months.**

Authority to decide:

a Extension of time : **EE (C) / C1D / CPWD/ Chennai 06.**

b Rescheduling of milestone : **CE CHENNAI/CPWD/CHENNAI 90.**

c Shifting of date of start in case of delay in handing over of site:

: CE CHENNAI/CPWD/CHENNAI 90.

Clause 6:

Mode of Measurement :**EMB. (Electronic Measurement Book)**

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.11.77 Lakhs for **Civil works** or part thereof as per discretion of Engineer-in-charge.

Rs.2.40 Lakhs for **Electrical works** or part thereof as per discretion of Engineer-in-charge.

Clause 7A : **APPLICABLE.**

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

Clause 7B (Payment to the Third Party) : **APPLICABLE.**

Clause 8A

Authority to decide compensation on account if contractor fails to submit completion plans:

: CE CHENNAI/CPWD/CHENNAI 90.

Clause 10A

List of testing equipment to be provided by the Contractor : **As per Table-I attached.**

Clause 10B (ii)

Whether Clause 10B (ii) shall be applicable : **NO.**

Clause 10C

Component of labour expressed as percent of Value of work. : **APPLICABLE (25%)**

Clause 10 CC

Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period show in next column : **Not Applicable**.

Schedule of Component of other materials, Labour, POL etc for Price escalation: -

Component of Civil (Except materials covered under clause 10CA) expressed as percent of Total Value of civil Work (Xm) : **Not Applicable**.

Component of labour expressed as percent of total value of civil work (Y) : **Not Applicable.**

Component of POL expressed as percent of total value of civil work : **Not Applicable.**

Clause 11

Specifications to be followed for execution of work:**CPWD Specifications 2019 amended up to last date of submission of bids and latest CPWD Electrical Specifications amended up to last date of submission of bids.**

Clause 12:

Type of work: Original Works

Clause 12.2& 12.3

Deviation Limit beyond which clauses 12.2& 12.3 shall apply: **NO LIMIT.**

Clause 16

Competent Authority for deciding reduced rates.:**CE/CHENNAI/CPWD/CHENNAI 90.**

Clause 18:

List of mandatory machinery, tools & plants to be deployed by the contractor at site

: **As per Table-II attached.**

Clause 19C:

Authority to decide penalty for each default: **EE (C) / C1D / CPWD/ Chennai 06.**

Clause 19D:

Authority to decide penalty for each default: **EE (C) / C1D / CPWD/ Chennai 06.**

Clause 19G:

Authority to decide penalty for each default: **EE (C) / C1D / CPWD/ Chennai 06.**

Clause 19K:

Authority to decide penalty for each default: **EE (C) / C1D / CPWD/ Chennai 06.**

Clause 25

Conciliator : Special DG, Region Chennai, CPWD, Chennai.

Arbitrator Appointing Authority : CE CHENNAI/CPWD/CHENNAI 90.

Place of Arbitration : Chennai.

(However, the Arbitral Tribunal may decide the place in consultation with both the parties.)

Clause 32

Minimum Qualifications & experience required for Principal Technical Representative:

Requirement of Technical Representative(s) and recovery Rate.

Sl. No.	Minimum Qualification of technical Representative	Discipline	Designation (Principle Technical / Technical representative)	Minimum experience in Years	Number	Rate at which Recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1.	Graduate Engineer	Civil + Electrical	Project Manager cum Planning / Quality /Site / Billing Engineer	5 (And having experience of one similar nature of work)	1 + 1	Rs. 15,000/-	Rupees Fifteen Thousand per Month per Person Only

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

Diploma holder with minimum 10 years 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 Delhi Schedule of Rates	**DSR 2023** with up to date correction slips.
(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.	**3% plus/minus.**

		For works with estimated cost put to tender more than Rs. 25 lakh 2% plus/minus	**2% plus / minus.**
	(b)	Bitumen for all works 2.5% plus only	**2.5 % plus only.**
	(c)	Steel Reinforcement and structural steel sections for each diameter, section, and category	**2% plus / minus.**
	(d)	All other materials	**Nil**

(TABLE-I)

Equipments for Testing of Materials & Concrete at Site Laboratory

All necessary equipment for conducting all necessary tests shall be provided at the site in the well-furnished site laboratory of minimum size 50 feet X 15 feet by the contractor at his own cost The following minimum laboratory Equipments shall be set up at site office laboratory:

Sl. No.	Equipment	Numbers (Minimum)
1.	100MT compression testing machine, electrical-cum-manually operated)	1
2.	Slump cone, steel plate, tamping rod, steel scale, scoop	2
3.	Vicat Apparatus with Desk pot	1
4.	Megger & earth resistance tester	1
5.	Pumps and pressure gauges for hydraulic testing of Pipes	2
6.	Weighing scale platform type 100 Kg capacity	2
7.	Graduated glass measuring cylinder	As per
8.	Sets of sieves of 450mm internal dia for coarse aggregate [100mm, 80mm, 40mm; 20mm; 12.5mm, 10mm; 4.75mm complete with lid and pan]	1
9.	Sets of sieves of 200mm internal dia for fine aggregate [4.75mm; 2.36mm; 1.18mm; 600 microns; 300 microns & 150 micron, with lid and pan]	1
10.	Sieve Brushes and sieve shaker capable of 200mm and 300mm dia sieves, manually operated with timing switch assembly	1 Each
11.	Cube moulds size 70mmx70mmx70mm	12
12.	Cube moulds size 150mmx150mmx150mm	30
13.	Ultrasonic Test Equipment (For concrete)	1
14.	Hot air oven temp. Range 50°C to 300°C- sensitivity 1 degree	1
15.	Electronic balance 600gx0.1g., 10kg and 50 kg	2
16.	Physical balance weight up to 5 kg	2
17.	Digital thermometer up to 150oc	1
18.	Air Content of concrete testing machine	1
19.	Measuring jars 100ml, 200ml, 500ml	3 Nos each
20.	Gauging trowels 100mm & 200mm with wooden Handle	4 Nos.
21.	Spatula 100mm & 200mm with long blade wooden Handle	6
22.	Vernier callipers 12" & 6" size	4 each
23.	Digital PH meter least count 0.01mm	2 each
24.	Digital Micrometre least count. 0.01mm	2 each
25.	Digital paint thickness meter for steel 500 micron Range	2
26.	GI tray 600x450x50mm, 450x300x40mm,300x250x40mm	3 Nos each
27.	Electric Motor mixer 0.25 cum capacity	1
28.	Rebound hammer test digital rebound hammer	2
29.	Screw gauge 0.1mm-10mm, least count 0.05	3
30.	Water testing kit	3
31.	Motorized sieve shaker	1
32.	Pruning Rods 2 Kg weight length 40 cm and ramming face 25 mm2	2
33.	Extra Bottom plates for 15 cm cube mould	12
34.	Standard Vibration Table for gauging the cubes	1

35.	Pocket concrete penetrometer 0 to 50kg/ sq.cm	1
36.	Concrete temperature measuring thermometer with Brass protection sheath 0-100 degree centigrade	1
37.	Mortar Cube vibrator	1
38.	Dial type spring balance preferable with zero correction knob capacity 100 kg reading to ½ kg.	2
39.	Counter scale capacity 1 kg and 10 kg	2
40.	Iron Weight of 5 kg, 2 kg, 1 kg, 500 gm, 200 gm, 100 gm	2each
41.	Brass Weight of 50 gm, 20 gm, 10 gm, 5 gm, 2 gm, 1 gm	2each
42.	Measuring cylinder TPX or Poly propylene capacity 100 ml, 500 ml, 250 ml, 100 ml	2each
43.	Pyrex, corning or Borosil beakers with cover capacity 500 ml, 200 ml, 50 ml	3 each
44.	Wash Bottles capacity 500 ml	6
45.	Thermometers 1–100-degree centigrade / max. and Min/ Dry and wet with table	2
46.	Set of box spanner ratchet	3
47.	Hammer 1lb& 2lb	3 each
48.	Rubber Hammer	3
49.	Hacksaw with 6 blades	3
50.	Measuring tape 2 mtr	6
51.	Depth gauge 20cm	6
52.	Shovels& Spade	6
53.	Steel plates 5 mm thick 75x75 cm	6
54.	Plastic or G.I. Buckets 15 ltr, 10 ltr, 5 ltr	3 each
55.	Wheelbarrow	6
56.	Floor Brushes, hair dusters, scrappers, wire brush, paint brushes, shutter steel plat oil, kerosene with stove etc.	12 each
57.	Any other equipment for site tests as outlined in BIS codes and as directed by the Engineer-in-charge.	

(TABLE-II)

Plant And Equipment Required to Be Owned / Taken On Lease By The Contractor

Sl. No.	Equipment	Numbers (Minimum)
1.	~~Builders hoist~~	
2.	~~Centralized concrete batch mix plant of capacity 30 cum per hour(fully automatic with computer control)~~	
3.	Excavator cum loader (JCB 3D model or equivalent).	1
4.	Compressor machine minimum 200 CFM with rock Breaker.	1
5.	DG set of minimum capacity 62.5 KVA.	1
6.	Mini batching plant (6 cum./hr.).	0
7.	Transit mixers.	As per requirement
8.	Concrete pump	1
9.	Needle Vibrators.	4
10.	Screed leveler.	1
11	Plate Vibrator	1
12	Automatic Ring making machine (Reinforcement)	2
13.	Dumper/Tipper	4
14.	Reinforcement bending machine.	3
15.	Reinforcement cutting machine.	4
16.	Power driven earth rammer (Soil compactor).	4
17.	Total station.	1
18.	Auto level & staff.	2
19.	Tractor with trolley.	1
20.	Water tanker (Minimum capacity of 5000 litres)	4
21.	Welding machine 400 Ampere	3
22.	Screener for coarse sand and fine sand	3
23.	Centrifugal mono block water pump minimum capacity 2 HP	4
24	Road roller 8 to 10 tonnes	1
25	Vibratory roller	1
26	Drilling machine	1 No.
27	Shuttering with necessary props	100 sq.mt.
28	Customized Aluminium Shuttering with necessary props	750 sq.mt.
29	Double steel scaffolding and staging materials	500 sq.mt.
30	Air compressor	1Nos.
31	Floor grinding/polishing machines	1Nos.
32	Granite cutting machine	2 Nos.
33	Ceramic tile cutting machine	2 Nos.
34	~~Granite polishing machine~~	0 Nos.
35	Granite hand polishing machine	2 Nos.
36	Computer for billing	3 Nos.
37	~~Mobile tower crane~~	0 Nos.

38	Any other machinery required for completion of the work as per decision of Engineer-in-charge.	As per Actual requirement

Note: The above list is only indicative and not exhaustive. The contractor may be required to deploy more T&P as per the requirement of work.

(Guarantee offered by bank to CPWD in connection with the execution of contracts)

FORM OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT /PERFORMANCE GUARANTEE/SECURITY/DEPOSIT/MOBILIZATION ADVANCE

a) Whereas the Executive Engineer ……(name of division) CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under .....(NIT number)..... dated…… for..... (Name of work). The Government has further agreed to accept irrevocable Bank Guarantee for Rs..... (Rupees .... only) valid up to..... (date)*..... as **Earnest Money Deposit** from ..... (Name and address of contractor)…… (Hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the Executive Engineer …… (name of division) CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number…… with .....(name and address of the contractor) for execution of work …… (Name of work) …….. The Government has further agreed to accept an irrevocable Bank Guarantee for Rs..... (Rupees .... only) valid up to ……..... (date)..... as **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

b) We, ... (indicate the name of the bank) (herein after referred to as "The Bank") hereby undertake to pay to the Government an amount not exceeding Rs……..... (Rupees..... only) on demand by the Government within 10 days of the demand.

c) We, ... (indicate the name of the Bank) do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees .....only).

d) We, ... (indicate the name of the Bank) ....., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.

e) We, ... (indicate the name of the Bank) further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions rerating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

f) We, ... (indicate the name of the Bank) further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

g) This guarantee will not be discharged due to the change in Constitution of the Bank or the Contractor.

h) We, ... (Indicate the name of the Bank) ....., undertake not to revoke this guarantee except with the consent of the Government in writing.

i) This Bank Guarantee shall be valid up to.....unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees..... only) and unless a claim in writing is lodged with us within the date of expiry or extended date of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date:.....

Witness:	Authorized signatory
i) Signature.....	Name
Name and address	Designation
ii) Signature.....	Staff Code No.
Name and address	Bank Seal

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

**In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for Earnest Money or for Performance Guarantee/Security Deposit/Mobilization Advance, as the case may be.

ANNEXURE-I

RECEIPT FOR DEPOSITION OF ORIGINAL EMD

(Receipt No…… / Date……)

NAME OF WORK: Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

1. N.I.T. No : **40/EE/C1D/CPWD/CHENNAI/2024-25**
2. Estimated Cost: **Rs 85,04,375/- (Civil: Rs. 70,62,033/-+ Electrical: Rs. 14,42,342/-)**
3. Amount of Earnest Money Deposit: **Rs. 1,70,088/-**
4. Last date of submission of bid : **04.12.2024@ 15:00 Hrs.**

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1. Name of Contractor……
2. Form of EMD & Details ……
3. Amount of EMD Deposit……
4. Date of submission of EMD……

Signature of EMD receiving Officer along with Office Stamp

(Scanned copy to be uploaded at the time of submission of Bid)

i) The authority receiving EMD in original form examines the EMD deposited by the bidder and issues receipt of deposition of earnest money to the agency in a given above format uploaded by tender inviting authority. The receipt can also be issued by any subordinate gazetted authority as authorized by the Engineer in Charge/DDH.

ii) The authority receiving original EMD also intimates tender inviting authority about deposition of EMD by the agency by email/fax/telephonically.

iii) The original EMD receiving authority releases 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 (https:// etender.cpwd.gov.in>closed Tender>all) that the particular contractor is not L-1 tendered and work is awarded.

iv) The tender inviting authority calls for original EMD of the L-1 tenderer from EMD receiving authority immediately.

FORM 'G'

NAME OF WORK: Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

N.I.T. No. **40/EE/C1D/CPWD/CHENNAI/2024-25**

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.

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

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

Signature of Notary with seal

(Scanned copy to be uploaded at the time of submission of Bid)

FORM 'H'

NAME OF WORK: Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

N.I.T. No. **40/EE/C1D/CPWD/CHENNAI/2024-25.**

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

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

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

Signature of Notary with seal

(Scanned copy to be uploaded at the time of submission of Bid)

ANNEXURE II

DECLARATION ABOUTSITE INSPECTION

To,

The Executive Engineer,
C1D, CPWD,
Chennai-600 006.

Sub: NIT No: 40/EE/C1D/CPWD/CHENNAI/2024-25for the work: Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

Dear Sir,

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

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

Yours faithfully

(Duly authorized signatory of the bidder)

ANNEXURE III

DETAILS OF CONTRACTOR

NAME OF WORK : Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.

Name of Tenderer :----------

Registration class/Department :----------

Validity of Registration :----------

Address of the Tenderer :----------

Contact Telephone no. :----------

Mobile no. :----------

E-mail ID :----------

(Signature(s) of Contractor(s))

PART-B

GENERAL AND SPECIAL CONDITIONS

&

PARTICULARSPECIFICATIONS

GENERAL CONDITIONS

1. Before tendering, the contractor shall inspect the site of work and shall fully acquaint himself about the conditions prevailing at site, availability of materials, availability of land and suitable location for construction of godowns, stores and camp, transport facilities, the extent of lead and lifts involved in the work (over the entire duration of contract) including local conditions, as required for satisfactory execution of the work and nothing extra whatsoever shall be paid on this account.

2. The contractor shall at his own expense and risk arrange land for accommodation of labour, setting up of office, the storage of materials, erection of temporary workshops, and construction of approach roads to the site of the work including land required for carrying out of all jobs connected with the completion of the work. If during construction it becomes necessary to remove or shift the stored materials shed workshop, access roads, etc. to facilitate execution of any other work by any other agency, the contractor shall do as directed by the Engineer-in-charge and no claim whatsoever, shall be entertained on this account.

3. The Ordinary Portland Cement of 43 Grade is specified in the Proforma of Schedules.The contractor may use PozzolanaPortland Cement of 43 grade for brick work, plastering, flooring at their convenience for which necessary deduction for use of PPC shall be made based on difference in market rate.

4. It shall be deemed that the contractor shall satisfy himself as to the nature and location of the work, transport facilities, availability of land for setting up of camp etc. The department will bear no responsibility for lack of such knowledge and the consequences thereof.

5. The contractor shall have to make approaches to the site, if so required and keep them in good condition for transportation of labour and materials as well as inspection of works by the Engineer-in-charge. Nothing extra shall be paid on this account.

6. The contractor shall be responsible for the true and proper setting out of the work in coordination with the Engineer-in-charge or his authorized representatives and for the correctness of the positions, levels, dimensions, and alignments of all parts of the structure and for the provisions of all necessary instruments appliances and labour in connection therewith. If at any time, during the progress of work, any error appears or arises in the position, levels, dimensions, or alignment of any part of the work, the contractor on being asked to do so by the Engineer-in-charge, shall rectify such error to the entire satisfaction of Engineer-in-charge. The checking by the Engineer-in-charge or his authorized representative shall not relieve the contractor of his responsibility for the correctness of any setting out of any line or level. The contractor shall carefully protect and preserve all benchmarks pegs and pillars provided for the setting out of works.

7. All setting out activities concerning establishment of benchmarks, theodolite stations centre line pillars etc. including all materials, tools, plants, Equipments, theodolite and all other instruments, labour etc. required for performing all the functions necessary and ancillary thereto at the commencement of the work, during the progress of the work and till the completion of the work shall be carried out by the contractor and nothing extra shall be paid on this account.

8. The contractor shall at his own cost submit samples of all materials sufficiently in advance and obtain approval of the Engineer-in-charge. Subsequently, the materials to be used in the 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.

9.The contractor shall at his cost, make all arrangements and shall provide necessary facilities as the Engineer-in-charge may require for collecting, preparing, packing forwarding and transportation of the required number of samples for tests & for analysis at such time and to such places as directed by the

Engineer-in-charge, and bear all charges and cost of testing.

10. The necessary tests shall be conducted in the laboratory approved by the Engineer-in- charge. The samples for carrying out all or any of the tests shall be collected by the Engineer-in-charge or on his behalf by any other officer of CPWD. The contractor or his authorized representative shall associate himself in collection, preparation, packing and forwarding of such samples for the prescribed tests and analysis. In case he or his authorized representative is not present or does not associate himself, the results of such tests and consequences thereon shall be binding on the contractor.

11. Materials used on work without prior inspection and testing (where testing is necessary) and without approval of Engineer-in-charge are liable to be considered unauthorized, defective and not acceptable. The Engineer-in-charge shall have full powers to require removal of any or all of the materials brought to site by contractor which are not in accordance with the contract, specifications or do not conform in character or quality to the samples approved by the Engineer-in-charge. In case of default on the part of the contractor in removing rejected materials, the Engineer-in-charge shall be at liberty to have them removed at the risk and cost of the contractor.

12. The contractor shall make his own arrangement for the water required for execution of work and get the water tested at his own cost with regard to its suitability for use in the works and get written approval from the Engineer-in-charge before he proceeds with the use of same for execution of work. Nothing extra shall be paid to the contractor on this account.

13. The work shall be carried out in such a manner so as not to interfere/or effect or disturb other works being executed by other agencies, if any.

14. Any damages done by the contractor to any existing work or work being executed by other agencies shall be made good by him at his own cost.

15. The work shall be carried out in the manner complying in all respects with the requirement of relevant rules and regulations of the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.

16. For completing the work in time, the contractor might be required to work in two or more shifts and no claims whatsoever shall be entertained on this account, notwithstanding the Fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amount for any other reasons,

17. There is no electric power supply at the site of work. The contractor will have to make his own arrangement for obtaining electric connection from the state electricity board and make necessary payments directly to the department concerned and/or install generators at the site of work, if required and nothing extra whatsoever will be payable on this account.

18. The drawings for the work attached in the document relating to this contract and all other drawings that will be issued by the Engineer-in-charge during the execution of work shall at all times be properly correlated before executing any work and no claim whatsoever shall be entertained on this account.

19. The contractor shall maintain in good condition all work executed till the completion of the entire work entrusted to the contractor under this contract and nothing extra shall be paid on this account.

20. No payment will be made to the contractor for damage caused by rain, floods and other natural calamities whatsoever during the execution of the works and any damage to the work on this account shall have to be made good by the contractor at his own cost and nothing whatsoever ' shall be paid on this account.

21. The rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour materials, de-watering and other inputs involved in the execution of the items.

22. Unless otherwise provided in the schedule of quantities or CPWD specifications the rates tendered by the

contractor shall be all-inclusive and shall apply to all heights, depths, leads and lifts.

23. No claim whatsoever for idle labour, additional establishments, costs of hire and labour charges for tools and plants etc. would be entertained under any circumstances.

24. For the safety of all labour directly or indirectly employed in the work for the performance of the contractor's part of this agreement, the contractors shall, in addition to the provisions of CPWD safety code and directions of the Engineer-in-charge make all arrangements to provide facility as per the provisions of Indian Standard Specifications (Codes) listed below and nothing extra shall be paid on this account.

1. IS 3696 Part I Safety Code for scaffolds and ladders.
2. IS 3696 Part II Safety Code for scaffolds and ladders Part Illadders
3. IS 764 Safety Code for excavation work.
4. IS 4081 Safety Code for Blasting and Drilling operations,
5. IS4138 Safety Code for working in compressed air.
6. IS 7293 Safety Code for working with construction machinery.
7. IS 7969 Safety Code for storage and handling of building materials.

25. The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards and by providing red flags, red lights, and barriers. The contractor shall be responsible for any accident at the site of work and consequences thereof.

26. Royalty at the prevalent rates and all other incidental expenditure shall have to be paid by the contractor, on all the boulders, metal shingle, earth, aggregates, sand, bajri, Brick bats etc. collected by him for the execution of the work direct to the concerned Revenue Authority of the State or Central Government and the amount paid shall not be reimbursed in any form whatsoever.

27. In case of specifications the following hierarchy will be followed:

(1) Nomenclature of the item.

(2) Additional Specifications, particular specifications, special / additional conditions if any as defined in the contract documents.

(3) Drawings

(4) CPWD Specifications.

(5) BIS Specification (Latest version) if CPWD specification not available.

(6) Manufacturer's specifications if BIS specifications not available.

(7) Sound Engineering practices. Standard textbooks.

(8) If none of the above is available decision of Engineer-in-Charge will be Final.

28. All Stone aggregates, sand, stone dust, etc shall be obtained only from the quarry or other source approved by the Engineer in charge before they are actually procured and used in the work. The rate for the items mentioned in the schedule of quantities includes all charges and nothing-extra payable on any account.

29. GST@ 2%, Income Tax at applicable rates, building and other construction workers welfare cess @ 1% and Water Charges @ 1% shall be deducted at source from the bills of Gross value (which includes the cost of stipulated materials) of the work done and Government shall not entertain any claim whatsoever in this respect in this contract.

30. EPF and ESIC paid by the contractor to the concerned department and on demand the applicable

contributions as per GCC will be reimbursed to him by the Engineer-in-Charge after satisfying that it has been actually and genuinely paid by the contractor.

31. The contractor has to make arrangements for providing inspection lift for inspection of various floors by department officers, wherever applicable.

32. All expenditure to be incurred for testing of samples e.g., packaging, sealing, transportation, loading, unloading etc., including testing charges shall be borne by the contractor. The testing shall be carried out from the IITs , NITs, Central / State Government Engineering Colleges or any approved laboratories as approved by the SDG/ADG Region Chennai.

33. The Quoted rates are inclusive of necessary double scaffolding at all heights, all surfaces including curvatures and all levels etc., No extra payments shall be allowed in respect of double scaffolding.

34. Wherever, the double scaffoldings are provided, it must be covered externally with suitable green cloths/nets and with safety nets in order to prevent spreading of dust and falling of debris etc, at free of cost by the agency. No extra payments shall be allowed in respect of these safety arrangements on double scaffolding. The Quoted rates are inclusive of all these necessary arrangements at all heights, all surfaces including curvatures and all levels etc.,

35. The provisions of deviation / extra items in a contract must be utilised exclusively within the scope of particular work and in no case be extended to other works under any circumstances.

36. The approach / access for the Construction work (vertical extension) will be made from outside building and no material and labour movement will be allowed to work through inside lift and staircase. So, the movement of materials and labours will be made from outside building by the agency on his own cost and nothing extra shall be paid to the agency.

37. New RMC Plants shall be got approved by the Chief Engineer, Chennai, CPWD, Chennai-90 and Contractor shall ensure that the quality and strength of cement concrete procured from RMC Plants is as per design requirement through a well defined quality control system, testing of samples, transportation of concrete (IS 4926 : 2003) and continuous analysis of results as per CPWD specifications and relevant India standards.

The following are the approved RMC Plants.

a) ACC Limited
b) Ultratech Ready mix concrete
c) RDC concrete India Pvt. Ltd.

38. Restrictions may be imposed by the security staff of client department etc., on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on this account.

39. The demolishing of existing building/structure work will be carried out in the manner complying in all respects with the requirements of relevant bye laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid on this account.

40. Unless otherwise specified in the schedule of quantities the rate tendered by the contractor for the items of the work shall be considered, as inclusive of pumping out or bailing out water, if required, for which no extra payments will be made. This will include water encountered from any source, such as rains, floods, sub-soil water table being high or due to any other cause whatsoever.

41. 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.

42. The List of approved makes of materials for use in construction & maintenance works of CE, Chennai is annexed under Annexure IV (34 Pages). The link for the same is given below.

https://acrobat.adobe.com/link/track?uri=urn:aaid:scds:US:550b7514-0738-31dd-a929-650ea0db758d

ADDITIONAL CONDITIONS

1. The contractor shall make his own arrangements for obtaining electric connections if required and make necessary payments directly to the department concerned.
2. Other agencies doing works related with this project will also simultaneously execute the works and the contractor shall afford necessary cooperation for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work of pipes, cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for other agencies. Conduits for electrical wiring/cables will be laid in a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same.
3. The building work will be carried out in the manner complying in all respects with the requirements of relevant byelaws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid on this account.
4. The work of water supply, internal sanitary installations and drainage work etc. shall be carried out as per local Municipal Corporation or such local body-byelaws and the contractor shall produce necessary completion certificate from such authorities after completion of the work.
5. Water tanks, taps sanitary, water supply and drainage pipes, fittings and accessories should conform to byelaws and specifications of the Municipal Body/Corporation where C P W D 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.
6. The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charge, which he may be liable.
7. The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
8. 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 (or) extra cement considered in consumption on this account.
9. The structural and Architectural drawings shall at all times be properly correlated before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless and otherwise given in writing by the Engineer-in-charge.
10. The Contractor shall furnish his proposed methodology and programme of construction in comprehensive manner of executing and completing the work with in the stipulated period and also for achieving the milestones simultaneously as specified in schedule "F" with in 15 days of award of tender. The programme shall consist of the various components for each part of the work stipulated to be completed and a bar chart may be appended in this connection.
11. 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 compound walls are to be constructed.
12. If as per Municipal / Local body rules the huts for labour are not erected at the site of work by the contractors, the contractors are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account.

13. Wherever Hindi version also exists, and if there be variations between Hindi and English version in any part of the tender documents, the English version alone shall prevail.

14. The Rate for RCC works include cost of concreting in sloped / curved RCC members and no extra rate shall be payable on any account.

15. The Rate for Centering& shuttering includes cost of Centering in sloped roof/ chajjas / beams and no extra rate shall be payable on any account.

16. The Contractor should construct proper mortar bands of lean mix with adequate depth & smaller size over the curved roof for flooding with water & proper curing. In case of Arches, wet gunny bags shall be used for a period of two weeks.

17. Samples of all materials, fixtures, fittings like flooring tiles, wall tiles, doors, windows, sanitary fittings, roofing sheets etc. shall be got approved in advance before placing order for them. Similarly, samples of all works like fixing roofing sheets, flooring, plastering, painting etc. shall be prepared in advance and got approved from the Engineer-in-Charge before taking up the work.

18. The contractor shall procure all the materials in advance so that there is sufficient time for testing and approving the material and clearance of the same before use in work.

19. The rate for skirting, dados include cost of chasing of Brick walls to the required thickness wherever required in order to accommodate required thickness of base cement Mortar and nothing extra is payable.

PARTICULAR SPECIFICATION AND SPECIAL CONDITIONS FOR CEMENT AND STEEL BROUGHT BY THE CONTRACTOR

1.0 CEMENT

1.1 The contractor shall procure cement (conforming to IS:1489-part-I) as required in the work, from reputed manufacturers of cement such as **ACC, Ultratech, Birla, Coromandel and any other reputed cement manufacturer having a production capacity not less than one million tons per annum as approved by SDG, Project Region, CPWD, Chennai.** The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially. Supply of cement shall be taken in 50kg bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS codes. In case 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. Every fresh cement batch should be brought to site at least 30 days before they are to be used / consumed in the work.

1.2 The cement shall be brought at site in bulk supply of approximately 50 tons or as decided by the Engineer-in-Charge.

1.3 The cement godowns of the capacity to store a minimum of 2 months requirement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of cement godowns. The keys of one lock shall remain with Engineer-in-Charge or his authorized representative and 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 or his authorized representatives.

1.4 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 frequency and details of the tests shall be decided by the Engineer-in-Charge depending on the quantum of supply in each batch. The cost of tests shall be borne by the contractor.

1.5 The actual consumption of cement on work shall be regulated and proper accounts be maintained by the contractor. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by the conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at rate so prescribed shall be made. In case of excess consumption, no adjustment shall be made. Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-charge.

1.6 Damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.

1.7 The cement bags shall be stacked on proper floors consisting of two layers of dry bricks laid on well consolidated earth at a level of at least one foot above ground. The stacks shall be in rows of 2 and 10 bags high with minimum of 0.6m clear. Bags should be placed horizontally continuous in each line. Actual size / shape of go down shall be as per site requirement and nothing extra shall be paid on this account. The decision of Engineer-in-charge regarding capacity shall be final.

1.8 Cement register for the cement shall be maintained at site. The account of daily receipts and issues of cement shall be maintained in the register in the proforma prescribed and signed daily by contractor or his authorized agent.

2.0 SPECIAL CONDITION FOR STEEL REINFORCING BARS

2.1 The CPWD/ contractor shall / procure IS marked TMT bars of various grades from

1) The steel manufacturers such as SAIL, TATA Steel Ltd., RINL, Jindal Steel & Power Ltd., and JSW steel Ltd., or their authorized dealers having valid BIS license for IS: 1786-2008 (Amendment -1 November 2012)

2) (a) The steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS license for IS: 1786-2008(Amendmant-1 November 2012).

The procured steel should have following qualities: -

(i) Excellent ductility, bend ability and elongation of finished product due to possible refining technology.

(ii) Consumption of steel should be accurate as per design.

(iii) Steel should have no brittleness problem in finished product.

(iv) Steel should carry the quality of corrosion and earthquake resistance.

(v) Quality steel with achievement of proper level of sulphur and phosphorus as per IS: 1786-2008.

(b) Selection Criteria of steel manufacturers.

The supply of reinforcement steel for all CPWD works should have following selection criteria of steel manufacturers: -

Steel producers of any capacity using iron ore/ processed iron ore as the basic raw material adopting advanced refining technologies as given hereunder,

DRI-EAF= Direct Reduced Iron- Electric arc furnace

OR

BF-BOF= Blast furnace- Basic oxygen furnace.

OR

COREX – BOF= COREX- Basic oxygen furnace.

For production of liquid steel to finish product at single/ multiple locations with NABL or any other similarly placed accrediting Government body which operates in accordance with ISO/IEC17011 and accredits labs as per ISO/IEC 17025 conforming to IS: 1786-2008(Amendment-1 November 2012).

The check list for incorporation of any quality steel producer is enclosed for technical assessment in **Annexure-I.**

2.01 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.

2.02 Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para 2.1 above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week's time of written orders from the Engineer-in-charge to do so.

2.03 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tons or more or as decided by the Engineer-in-Charge.

2.04 The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.

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

Size of bar	For consignment below100 MT	For consignment over 100 MT
Under 10mm dia bars	One sample for each 25 tonnesor part thereof	One sample for each 40tonnes or part thereof
10 mm to 16mm diabars	One sample for each 35 tonnesor part thereof	One sample for each 45tonnes 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

2.06 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.

2.07 The actual issue and consumption of steel on work shall be regulated and properaccounts shall be maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 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 needs to be made.

2.08 The steel brought to site and steel remaining unused shall not be removed from sitewithout the written permission of the Engineer-in-Charge.

For the purpose of payment, the actual weight of reinforcement steel shall be worked out as below:

To arrive at unit weight for the purpose of payment three random samples each of 1meter length shall be collected for each diameter of re-bar from every consignment received at site. Actual weight of three specimens for each diameter shall be taken and average weight calculated and recorded. The average weight so arrived at shall be compared with theoretical weight of that particular diameter of rebar. Actual or theoretical weight whichever is less shall be considered for making payment for that consignment. However final payment shall be made on the basis ofweighted average of all the consignment. The decision of the Engineer-in-charge as regards the random samples and average weight shall be final and binding on the contractor and no claim of any kind shall be entertained in this regard.

Annexure- I
Special Conditions for Steel
(Reference para 27.2)

Sl.	Item	Checkpoint	remarks
1.	Steel Producer having manufacturing facilities at Plant	a. Factory address and Registration no.	
		b. Certificate of manufacturing process	
		c. Refining process of steel Producer	
		c.1 BF- BOF route	
		c.2 Corex – BOF route	
		c. 3 DRI – EAF route	
		With documentary evidence either for BOF or EAF	
		d. Steel plant having infrastructure for producing sponge iron, billete and TMT Rebars	
		e. Production and Quality Flow Chart	
		f. Plant Evaluation and Process Verification	
		g. List of Plant & Machinery	
2.	Established	**Document verification for :**	
		a. Govt. / PSU Approvals	
		b. Supply orders of TMT Re-bars in Govt. Projects (Minimum-5 years)	
		c. Verification of direct supply orders to any State/Central Govt. Department	
		d. User Certificate issued by any Govt. Department directly	
3.	Indigenous	**Documentary evidence like;**	
		a. Certificate of Incorporation	
		b. Memorandum of Articles of Association	
		c. Credit rating of the company from CARE/CRISIL/ICRA should not be C/D grade (minimum last 3 year)	
		a. Test Results from Govt./NABL accredited laboratories	
		b. In-house testing facility for physical/Chemical tests (NABL accrediated)	

4.	Reliable	d. Calibbration Certificates	
		e. List of Lab Equipments:	
		e.1 Spectrometer	
		e.2 Computerized UTM	
5.	Use of Iron-Ore/Processes Iron are as basic raw materials	Verification of Iron-Ore/ Process iron ore invoices	
6.	In-house rolling facility	Plant verification to identify in-house rolling facilities, production of liquid steel & crude steel	
7.	Licences & Certificates	a. ISO 9001:2008 Certification	
		b. ISO 14001:2004 Certification	
		c. OHSAS 18001:2007 Certification	
		d. IS 1786:2008 (TMT Re-bars)	
		e. IS 2830:1992 (Billets)	
8.	Product Range	TMT Re-bars FE 415/415D/500/500D/550/550D	
		CRS (Corrosion Resistant) & EQR (Earthquake Resistant) TMT Re-bars Size 8 to 36 mm dia	

Note:

DRI – EAF-> Direct Reduce Iron – Electric ARC Furnace
BF – BOF-> Blast Furnace – Basic Oxygen Furnace
COREX-BOF ->COREX Furnace – Basic Oxygen Furnace

RCC CONCRETE FROM FULLY AUTOMATIC COMPUTERISED CONCRETE BATCHING AND MIXING 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.

(ii) 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 printout 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.

a) Batching equipment

b) Mixers

c) Control panels

d) Mechanical material feeding and elevating arrangements.

e) 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.

(iii) 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 by self-cleansing during drawdown. The batch bins shall in general conform to the requirements of IS :4925.

(iv) 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.

The

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

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.

Transportation, Placing and Compaction of Concrete

(i) 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 to100 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.

(ii) 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.

(iii) 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 between15 & 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.

PREPARATION OF MIXES AS PER APPROVED MIX AND CONDUCTING CONFIRMATORY TEST AT FIELD LAB.

(i) 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 7 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 7 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.

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 7 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.

TEST RESULTS OF SAMPLE

The test results of the sample shall be the average of the strength of three specimen. 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.

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 centring, shuttering and casting for which nothing extra shall be paid to the contractor.

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.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.

(ii) **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 Modifies 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 at the cost of contractor.

MEASUREMENT

As per **CPWD** specifications.

TOLERANCES

As per **CPWD** specifications.

RATE: -

(i) 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.

(ii) 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 2009, Vol.-I taking rates of DSR 2016 for the relevant item as base rate.

(iii) 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 mumty / 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.

(iv) 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.

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 (Conbextra as manufactured by M/S Fosroc Chemicals India Ltd. Or equivalent as approved by the Engineer-in-charge at his discretion) 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.

Waterproofing treatment

The waterproofing items should be got done through the firms approved by Engineer in Charge.

GUARANTEE FOR WATER PROOFING TREATMENT

Five years guarantee in the prescribed perform attached must be given by the contractor for the water proofing treatment. In addition, 10% (ten percent) of the cost of these items would be retained as guarantee to watch the performance of the work executed. However, half of this amount (withheld) would be released after two monsoon seasons after the date of completion of the work, ifthe performance of the waterproofing works is satisfactory. The remaining withheld amount can be released after completion of five monsoon seasons after the date of completion of work, if the performance of the waterproofing work is satisfactory. If any defect is noticed during the guarantee period, it should be rectified by the contractor within seven days and, if not attended to, the same shall be got done by other agency at the risk and cost of the contractor. In any case the guaranteeing firms during the guarantee period should inspect and examine the treatment once in every year and make good any defect observed. However, the security deposit can be released in full if bank guarantee of equivalent amount for five (5) years is produced and deposited with the department.

PARTICULAR SPECIFICATION AND ADDITIONAL CONDITIONS FOR WATER PROOFING WORK

The work shall be got executed as per CPWD Specifications and as per the manufacturer's specification through specialized agency as approved by the Engineer-in-charge.

The contractor shall furnish the following particulars immediately after the issue of letter of acceptance by the department.

a. The name of the specialized firm.

b. The trade names of the product, which would be used.

c. List of works where the treatment has been used.

d. Quantity of chlorides and sulphides used in the product.

GUARANTEE FOR WATER PROOFING TREATMENT

The contractor shall be fully responsible for and shall guarantee proper performance of the entire waterproofing system for a period of 5 (Five) years to be reckoned from the date after the maintenance period prescribed in the contract, which shall be furnished in a non-judicial stamp paper of value not less than Rs.100/- in approved proforma before final payment and shall not in any way limit any other rights of the Employer may have under the contract .Guarantee for water proofing shall comprises of all the items described above in particular specification.

All water-proofing work shall be carried out through approved specialist agency as per method of working approved by the Engineer-in-charge. However, the contractor shall be solely responsible for waterproofing treatment until the expiry of the above guarantee period.

Five years guarantee in the prescribed proforma attached shall be given by the contractor for the water proofing treatment. In addition, **10% (ten percent) of the cost of these items of water proofing** under this sub head shall be retained as guarantee to watch the performance of the work executed. However, half of this amount (withheld) would be released after Two and half years from the date of completion of the work if the performance of the waterproofing works is satisfactory. The remaining withheld amount shall be released after completion of Five years from the date of completion of work if the performance of the waterproofing work is satisfactory. If any defect is noticed during the guarantee period, it should be rectified by the contractor within seven days of issuing of notice by the Engineer-in-Charge and, if not attended to, the same shall be got done through other agency at the risk and cost of the contractor and recovery shall be effected from the amount retained towards guarantee. In any case, the contractor and the specialist agency, during the guarantee period, shall inspect and examine the treatment once in every year and make good any defect observed and confirm the same in writing. The security deposit can be released in full, if bank guarantee of equivalent amount, valid for the duration of guarantee period, is produced and deposited with the Department.

GUARANTEE TO BE EXECUTED BY CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION OF WORK IN RESPECT OF WATER PROOFING WORKS.

This agreement made this day of _____Two Thousand and _____ between _____ (Name of Contractor) hereinafter call Guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

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

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water / leak proof for five years from the date of completion of work.

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 completion of work.

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

a) Misuse of roof shall mean by operation, which will damage roofing treatment, like chopping of firewood and things of the same nature, which might cause damage to the roof.

b) Alteration shall mean construction of an additional storey or a part of roof or construction adjoining to existing roof, whereby roofing treatment is removed in parts.

c) The decision of the Engineer-in-Charge with regard tocause of leakage shall be final.

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

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

In witness where of these present, has been executed by the Obligator _____ and by _____ for and on behalf of the PRESIDENT of INDIA on the _____ day of _____ month of _____ 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 in the presence of:

1.

2.

PART C
FOR E & M WORKS
(Minor Component)

Index

Code	Content	Page No.
	PART- C (E & M- minor component)	1 - 28
1	Index	2
2	Schedule A to F (E & M component)	3 - 8
3	Special conditions & Eligibility criteria for E&M works	9 - 12
4	Form "G", "H", "I"	13 – 16
5	Technical Specifications	17 - 22
6	Additional Conditions	23 - 24
7	Approved makes details	25 - 30

PROFORMA OF SCHEDULES A to F
(E & M Components)

SCHEDULE 'A'
Schedule of quantities (E & M works):

Electrical work Minor component: Rs.14,42,342/-

SCHEDULE 'B'
Schedule of materials to be issued to the contractor

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

.....NIL.....

SCHEDULE 'C'
Tools and plants to be hired to the contractor

Sl. No.	Description	Hire charges per day	Place of Issue
1	2	3	4

_____NIL _____

SCHEDULE 'D'

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

.....are attached.....

SCHEDULE 'E'

Reference to General Conditions of contract: GCC 2020 for Construction works as amended/modified upto last date of submission of tender.

Name of work:

Construction of Additional floor with light-weight structure at AVNL Office Building, Avadi. (Electrical Portion)

Estimated cost of work (E&M Services) : **Rs. 14,42,342/-**

SCHEDULE 'F' – General Rules & Directions

Officer inviting tender		Executive Engineer, CPWD, Chennai.
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2& 12.3		See below under Clause 12.
Definitions:		
2(v)	Engineer-in-Charge	Executive Engineer (E), CPWD, Chennai or Successor thereof.
2(viii)	Accepting Authority	As per major component
2(x)	Percentage on cost of materials and labor to cover all overheads and profits	15%
2(xi)	Standard schedule of Rates	**DSR 2022** (E&M) & DSR 2023 (Civil) with upto date correction Slips+Effective Cost index as on **28/04/2023**.
2(xii)	Department	Central Public Works Department.
9(ii)	Standard CPWD contract form GCC 2019, CPWD-7 as modified & corrected upto	GCC 2020 for Construction works & CPWD 7 as amended /modified up to last date of submission of e-tenders.
Clause 1 i)	Time allowed for Submission ofPerformance guarantee, Programme Chart (Time and Progress) and applicable labor licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance.	As per composite tender provisions
ii)	Maximum allowable extension with late fees @ 0.1% per day of performance Guarantee amount beyond the period provided in (i) above.	As per composite tender provisions

Clause 2	Authority for fixing compensationunder Clause 2	**Chief Engineer, CPWD, Chennai or his successor thereof**
Clause 2A	Whether clause 2A shallbe applicable	As per major component
Clause 5	Number of days from the date ofissue of letter of acceptance for reckoning date of start	As per composite tender provisions

PROFORMA OF SCHEDULES

Authority to Decide:

i). Extension of time		As per major component
ii) Rescheduling of mile stones Competent authority		As per major component
iii) Shifting of date of start in case of delay in Handing over of site.		As per major component
Clause 6	Mode of measurement	EMB (Electronic Measurement Book)
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.	80 Thousand or part there of as decided by Engineer–in-charge (for E&M works)
Clause 7 A	Whether Clause 7 A shall be applicable	As per major component
Clause 10A	List of testing equipments to be provided by the contractor at site lab.	As per major component
Clause10B (i)	Whether clause 10-B (i) shall be applicable	As per major component
Clause10B (ii)	Whether clause 10-B (ii) shall be applicable	As per major component
Clause 10C	Component of labour expressed as percent of value of work i) For component C-1: 25% Labour ii) For component C-2 to C-4: 15% Labour	
Clause 10CA	Whether clause 10CA shall be Applicable	Not applicable
Clause 10CC	Whether clause 10CC shall be applicable	As per major component

Clause 11	Specifications to be followedFor execution of work	CPWD General specifications forElectrical Works, Part–I to part VIII with correction slips issued up to last date of submission of tender

Clause 12:	Type of Work	Original Work
12.2 & 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for E & M work	No limit
12.5 (i)	Deviation limit beyond which clauses 12.2 and 12.3 shall apply for foundation work (except Earth work).	Not applicable
(ii)	Deviation limit for items in earth workSub head of DSR or related items.	Not applicable
Clause 16	Competent Authority for decidingReduced rates.	Chief Engineer, CPWD, Chennai or Successor thereof.
Clause 18	List of mandatory machinery, tools & plants to be deployed by the contractor at site	As required for timely execution of work as per direction of Engineer-in-charge.
Clause 19C	Authority to decide penalty for eachdefault	As per major component
Clause 19D	Authority to decide penalty for eachdefault	As per major componentAs per major component
Clause 19G	Authority to decide penalty for eachdefault	
Clause 19K	Authority to decide penalty for eachdefault	
Clause 25	Constitution of Dispute Redressal	As per major component

Clause 36 (i)
Requirement of Technical Representative(s) and recovery rate for E&M works:
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 ofclause36(i)	
						Figures	Words
1	Graduate Engineer	E & M	Principal Technical Representative	10 years	1	35000	Thirty Five Thousand per month
2	Graduate Engineer OR Diploma Engineer	E&M	Project /Site Engineer And project planning /billing Engineer	2 years	2	20000	Twenty Thousand per month
				5 years	2	20000	Twenty thousand per month

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

Clause 38

i) (a) Schedule/statement for determining Theoretical quantity of cement & Bitumen on the basis of Delhi Schedule of Rates 2022 printed by C.P.W.D.

ii) Variations permissible on theoretical quantities.

a) Cement for works with estimated cost put to

b) Tender not more than Rs.5 lakhs for works with estimated cost put to tender more than Rs.5 Lakhs.

c) Bitumen for all works.

d) Steel Reinforcement and structural steel sections for each diameter, section andcategory.

e) All other materials. As per major component

SPECIAL CONDITIONS FOR ALL SPECIALIZED/E & M COMPONENTS

1. The applicant should either himself meet the eligibility conditions for the respective E&M components or otherwise he will have to associate with agencies, fulfilling the eligibility requirements and hence consent letter from at least **One** eligible Associate Agency of the respective components of E&M work shall also be submitted as per attached **Proforma as per Form "H".**

   In case the main contractor is himself eligible (as per eligibility criteria) for executing any specific minor component and intends doing the job himself, he may not be required to associate with another agency for that minor component of work. In such cases the main contractor also has to submit the documents as per eligibility criteria mentioned for associated agency of individual E&M component.

   However, the Composite category contractor shall also be eligible to carry out himself any or all of these works without associating any specialized agency provided:

   (a) He fulfills the prescribed eligibility criteria respectively for these work(s)

   Or

   (b) He directly procures the equipment of approved make from manufacturer and gets it installed from authorized agency/service provider of the manufacturer/specialized agency, all as per the eligibility criteria mentioned in NIT.

2. The main tenderer have to submit the following documents for association of contractor within one month of award of work.

(i) In support of the eligibility conditions of the proposed Associated Contractor, copy of their registration documents, Electrical License, GST Documents duly attested by the applicants (Main Contractor) shall be submitted to the EE(C) who will submit these documents to the **Executive Engineer (Electrical), Chennai – I, CPWD, Chennai - 06** for deciding the eligibility. Each such Associated Contractor will certify that they are not debarred as on the day of application for sale of tender. Proposal for associating agency for minor components of
work shall be submitted in Form- "G" of this tender document from each associate independently for all electrical and mechanical components.

(ii) The main contractor will submit an Affidavit of MOU signed with eligible associated. The Affidavit of MOU in the enclosed Form 'I' shall be signed by both the parties' main contractor i.e.as 1st party and associated contractor as 2nd party. Independently for all electrical and mechanical components.

3. In the event of the concerned E&M agency not performing satisfactorily or failure of

associate contractor to complete the E&M work, the main contractor on written directions of the department, shall remove the Associate contractor deployed on the work and shall submit name of new associate who fulfil the conditions mentioned in NIT to execute the left over work without any loss of time or variation in cost to the department. **Such associates shall also give an undertaking along with the main tenderer but both of them together will stand guarantee for the equipments already supplied for which payment has been released by the** department **in part**. If any equipment supplied for the work, during the currency of the earlier Associate contractor and paid partly by the Dept., becomes redundant /not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be liable for replacement of the equipment(s) at no cost to Department. No change of Associated Contractor will be allowed without prior approval of the Engineer-in-charge of the work.

In respect of all works i.e **Construction of Additional floor with light-weight structure at AVNL Office Building, Avadi. (Electrical Portion)**

the materials shall be procured only from the original equipment manufacturers/authorized dealers of OEM. The contractor shall submit all documentary details in fulfillment of this conditions regarding procurement of materials including relevant test certificates.

4. Executive Engineer (E) shall be the Engineer-in-charge as far as E & M works are concerned. Separate tender schedule abbreviated CPWD-7 and Special Conditions for E & M Work are appended with this tender. It will be obligatory on the part of the contractor/tenderer to sign the tender documents for all the component parts.

5. The main contractor shall be responsible and liable for proper and complete execution ofthe E & M work and ensure coordination and completion of both civil and E & M work.

6. The main contractor has to enter into agreement with contractor associated by him for execution of minor component. Copy of such agreement shall be submitted to Executive Engineer (E) in charge of minor component as well as E.E. incharge of major component.

8. The associate contractor shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.

9. **In case of LED bulbs/fittings all the LED bulbs/fittings shall be guaranteed for a period of 5 years. Before completion of defect liability period of one year, the main contractor has to submit security deposit of 5% of price quoted by him for SITC of LED fittings, for the remaining 4 years warranty period in acceptable form i.e. FDR/ Bank guarantee to concern Executive Engineer (E). The Security Deposit deducted from the bills of contractor shall be refunded to the main contractor only after submission of above security deposit for LED fittings by main contractor, failing which this LED security deposit @ 5% as above shall be deducted from Security Deposit deducted for total work and balance amount only will be refunded after completion of defect liability period. The LED Security Deposit will be released pro- rata basis each year.**

THE MINIMUM ELIGIBILITY CRITERIA FOR E&M COMPONENTS AND SPECIALIZED WORKS WHEREVER APPLICABLE

Sl. No	Component of E&M works	Estimated cost in Rs.	Eligibility
1.	IEI & Fans, MCB DB's,	Rs. 14,42,342/-	If the main contractor does not have valid Electrical license for executing the work then, he shall associate with eligible class registered contractor, possessing valid Electrical License of appropriate Voltage issued by competent authority.

Note: 1) The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of submission of tender. For other conditions, refer special conditions specified in Part C.

i. The applicant shall either himself meet the eligibility conditions for the respective E&M packages or otherwise, he will have to associate an agency meeting the eligibility requirements as given in this tender document and submit the details as per **Form "G"** given in Part C of this tender document within 30 days of award of work OR before start of minor component of work whichever is earlier.

ii. The applicant/ main contractor has to submit consent letters as per **Form "H"**, given in Part C of this tender document from at least one eligible associate agency of the respective component of E&M work for each of the component ofE& M works by clearly indicating the component of work within 30 days of award of work OR before start of minor component of work whichever is earlier.

The main contractor will submit Affidavit of MOU signed with eligible associated contractor. The Affidavit of MOU in the enclosed Form "I" shall be signed by both contractors, Main contractor as 1st party and associated contractor as 2nd party, independently for **Construction of Additional floor with light-weight structure at AVNL Office Building, Avadi. (Electrical Portion).**

iii. specified as above.

iv. If the main contractor fails to associate agency for execution of minor components of work within 30 days of award of work OR before start of minor component of work whichever is earlier or furnishes incomplete details or furnishes details of ineligible agencies even after the tenderer is given due opportunity, the entire scope of such component of work shall be withdrawn from the tender and the same shall be got executed by the Engineer-in–Charge at the risk and cost of the main contractor.

v. Verifiable completion certificates of the work, registration/approval documents, Valid Electrical license, self-attested GST registration documents in respect of the associated agencies as the case may be, duly attested by the applicant shall be submitted within 30 days of award of work OR before start ofminor component of work whichever is earlier.

Executive Engineer (E)

FORM –G

PROPOSAL FOR ELIGIBLE ASSOCIATING AGENCIES FOR MINOR COMPONENTS OF WORK

I/we hereby propose the following agencies as per mentioned against each for executing corresponding minor components of work. Their consent letters are also attached.

Sl.No	Name of Associated Contractor	Category and Class of registration	Enlistment copy/completion Certificates attached	Monetary Limit of work	Validity of registration	Consent letter attached (Yes/No)

Note: Self Attested photocopies of enlistment order, valid electrical contractor license, work experience certificates of each agency for each component of E&M work shall be submitted.

Signature of contractor

FORM –H

CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OFMINOR COMPONENT OF WORK

Name of work:

Construction of Additional floor with light-weight structure at AVNL Office Building, Avadi. (Electrical Portion)

I / We hereby give my consent to associate with M/s ……, for executing the minor component of work of ……(Mention category).

1. I / We will execute the work as per specifications and conditions of the agreement and asper directions of the Engineer –in-Charge for the corresponding minor work till the completion of the work.

2. I / We will be responsible for necessary action to handover the installations and forrectification of defects and repair during the maintenance / warranty period.

3. Also I / We will employ full time technically qualified Engineer / supervisor for the minor component of the work as required for the work. I / We will attend inspection ofofficers of the department as and when required.

Date:

Signature with date of Major component	Signature with date of Associate/ Minor Component
Contractor	Contractor
Address	Address
Witness with address (From major component contractor side)	Witness with address (From minor component contractor side)

FORM-"I"

AF_IDAVIT OI MEMORANDUM O_ UNDERSTANDING (MOU)
(to be submitted for each and every E&M component)

1. M/s. (Name of the firm with full address)Enlistment Status
   Valid Upto:
   (Henceforth called the main Contractor)

2. M/s. (Name of the firm with full address)Enlistment Status
   Valid Upto:
   (Henceforth called Associated

Contractor)For the execution of E & M Work

Name of work: **Construction of Additional floor with light-weight structure at AVNL Office Building, Avadi. (Electrical Portion)**

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties can be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the Engineer In charge. Any of us may appeal against the mediation to the Chief Engineer, CPWD, Chennai. His decision shall be final and binding on both of us.
We have agreed as under:

1. The Associated Contractor will execute all E & M works in the wholesome manner as perterms and conditions of the agreement.
2. The Associated Contractor shall be liable for disciplinary action if he fails to dischargethe action(s) and other legal action as per agreement.
3. All the machinery and equipments, tools and tackles required for execution of the E & Mworks, as per agreement, shall be the responsibility of the Associated Contractor.
4. The site staff required for the E & M work shall be arranged by the Associated Contractor as per terms and conditions of the agreement.

5. Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Associated Contractor and by Associated Contractor himself.
6. All the correspondence regarding execution of the E & M work shall be done by the department with the Associated Contractor with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated contractor shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR	SIGNATURE OF ASSOCIATED CONTRACTOR
Date:	Date
Place:	Place:
1. Witness with address	2. Witness with address
(From major component contractor side)	(From minor component contractor side)

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

COMMERCIAL AND TECHNICAL SPECIFICATIONS FOR INTERNAL ELECTRICAL INSTALLATIONS

1. The work shall be carried out in accordance with the CPWD General Specification for electrical works (Part-I to Part –VIII) as amended up to date. The installation shall comply with the requirements of Indian Electricity Rules 1956 as amended up to date and NEC 2011.

2. The above schemes of all the E&M works shall have to meet all the requirements of local bodies / CEA/ NBC norms as applicable& also meet the technical specifications of various relevant CPWD specifications for electrical & mechanical services.

3. All the above schemes shall be got approved as applicable before commencement of execution of work at site. During execution, if the local bodies etc. require a modification, the same shall be executed. Finally, after execution preparation of documents required for approvals / NOCs / clearances from local bodies etc. shall be the responsibility of successful bidder for which nothing extra is payable. In case any modification / extra work is required, the same will be paid as per relevant clauses of the agreement. All statutory fees / charges required for obtaining clearances from CEA / Local Bodies shall be paid by the contractor and the same shall be reimbursed on submission of documentary proof.

4. Approval of the Engineer-in-charge shall be taken well in advance for all the materials to be supplied and used in all the works by the contractor.

5. Payments terms:
   On account payments for part work (after stipulated and statutory deductions) as assessed by the Engineer – in-charge for the applicable items in the Contract shall be payable at part rates not exceeding the percentage indicated against the stages of work.
   Items connected with point wiring, circuit wiring, sub-main wiring, power point wiring and light plug wiring.

S. No	Stage of work	Percentage of quoted Rate
a	On laying of conduits with accessories, switch boxes, etc.	40%
b	On drawing of wires i/c terminations, switches, sockets, cover plates etc.	45%
c	On completion of item and after testing and Commissioning.	10%
d	At the time of payment of final bill	5%

- Items of Distribution Boards, MCBs, RCBOs, fittings & LT Panel etc.

S. No	Stage of work	Percentage of quoted Rate
a	On initial inspection of material and delivery at site in good condition on pro-rata basis.	70%
b	On completion of installation on pro-rata basis.	15%
c	On completion of testing and commissioning.	10%
d	At the time of payment of final bill.	5%

6. For other items, the part rates will be decided by the Engineer-In-Charge of the work and shall be binding on the contractor.

7. The contractor his representative is bound to sign the site order book as and when required by the Engineer-in-charge and will comply with the remarks therein.

8. The connections, inter-connections, earthing and loop earthing shall be done by the contractor wherever required to be done for energization of the installation and nothing extra shall be paid on this account.

9. The contractor shall remove all the debris due to the electrical works from the site as soon as the work is completed.

10. The wiring and conduit route shall be marked by the contractor in the drawing first, and shall be got approved from the Engineer-in-charge.

11. The rupturing capacity of the MCB 's shall be 10 KA. The MCB 's shall have ISI mark. Quantities of MCBs of different rating of 6 amps to 32 amps shall be brought in consultation with the Engineer-in-Charge or his representative.

12. All the MCCBs shall be rated for Ics=100%Icu

13. The copper wire to be used on this work shall be FRLS type and ISI marked.

14. The make of switch boxes shall be the same as that of switches. Only the required knockouts of the switch boxes are to be removed for terminating the conduit pipes with PVC glands / Make of MCB/MCCB shall be the same as the make of MCB DB.
15. All the switch boxes, MCBDBs are to be covered with plastic sheet / petroleum gelly when installed in brick work till the plastering / painting is done to avoid sticking of cement plaster/ splashes of the paint. Cement plaster / paint are to be cleaned immediately after plaster to avoid rusting of switch boxes and MCB DBs. The plastic sheet is to be removed at the time of handing over.

16. The Contractor shall furnish documentary proof like delivery challans of purchasing Wires, Modular switches & accessories, MCBs, MCBDB, Fittings, accessories and other items from the manufacturers or their authorized dealers to the satisfaction of the Engineer-in-charge.

17. All PVC conduits accessories shall be of the same make as conduits. The Conduits shall be terminated at switch boxes/metallic junction boxes with suitable PVC glands/check nuts.

18. Cutting of brick walls shall be with chase cutting machine only. All repairs and patch works shall be neatly carried out to match the original finish and to the entire satisfaction of the Engineer in Charge. Any damage done to the building during the execution of electrical work shall be the responsibility of the electrical contractor and the same will be made good immediately at his own cost to the satisfaction of the Engineer-in-Charge. Any expenditure incurred by the department in this connection shall be recovered from the contractor and decision of the Engineer-in-Charge about recovery shall be final.

19. All the sub main and circuit wiring includes loose wire for connections inside switch boxes and MCB DB s. No payment for these loose wires shall be made.

20. All the circuits / sub-main wiring is to be suitably numbered with stickers at LT panel, MCBDBs, switch boards (on backside of cover plate) for ease of maintenance. Nothing shall be paid extra on this account.

21. To facilitate drawing of wires, 18 SWG GI fish wire shall be provided along with laying of recessed conduit for which no extra payment shall be made. Conduits laid for other services, like fire alarm, PA etc., where wiring is not done along with IEI works, fish wire shall be invariably drawn.

22. Copper conductor of insulated cables of size 1.5 Sq.mm and above shall be stranded and terminals provided with crimped lugs.

23. All MS junction box cover should be of phenolic laminated sheet of thickness not less than 3mm and for which nothing extra shall be paid on the account.

24. All sub-main/circuit/power wiring shall be terminated in the main board/switch boards with suitable copper lugs and thimbles for which nothing extra will be paid on this account.

25. All hardware items such as screws, thimbles, GI wire etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.

26. All hardware items such as nuts/ bolts/ screws/ washers etc. to be used in work shall be zinc/ cadmium plated iron.

27. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.

28. While laying conduit, suitable size junction boxes shall be provided for pulling the wire as per the decision of the E-in-C.

29. Materials to be used in work are to be ISI marked. The make of the materials have been indicated in the list of acceptable makes. No other makes will be acceptable. The materials to be used in the work shall be got approved by the Engineer in Charge / his representative before its use at site. The E-in-C shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not acceptable.

30. Where switches/ sockets/ regulator/ telephone/ TV / internet outlets are to be provided, the same shall be of only one make.

31. Wherever light fittings are proposed to be provided on the false ceiling, the respective light / fan point wiring will have to be brought upto the terminal of the light fittings / fans by the contractor. Flexible metal conduits shall be used for drawing wires from PVC conduits on ceiling to fittings on false ceiling and nothing extra shall be paid to the contractor for the same. The height from false ceiling to ceiling is about 1.2 metres.

32. All LT Panel Boards, MCB & MCCB DB's, UPS and RAW Power outlets should be marked with paint / Sticker for identification as per direction of engineer in charge.

33. All the LED Bulbs / LED fittings shall be guaranteed for a period of 5 years. Necessary Guarantee Certificate from the Original Manufacturer shall be submitted. The Contractor also submit warranty of 5 years in his letter head.

34. The LED fittings shall give an output of not less than 100 lumen/watt. CRI should be more than 80.

35. Total Harmonic Distortion (THD) of all LED fittings except 10 W / 20 W batten shall be less than 10%. For batten fittings THD shall be maximum 15%. Test certificate from manufacturer / any NABL approved laboratory shall be submitted along with supply of the items.

36. All (Except LED fittings) equipments supplied and installed shall be covered by warranty for 12 months effective from the date of acceptance against defective workmanship and materials. If any equipment is found to be defective due to faulty workmanship, faulty materials, faulty design or inferior quality of materials during the warranty period it shall be repaired and/ or replaced at site free of charge by the successful tenderer at his own cost. The warranty shall cover consequential damages to the equipments supplied and installed by the tenderer due to poor workmanship or defective materials. All repairs shall be done promptly within a reasonable period.

37. Warranty certificates, wherever specified shall be from the Original Manufacturer shall be submitted along with the bill.

38. The contractor has to make his own arrangement for stores and watch & ward and no extra claim for this will be entertained.

39. The contractor has to make his own arrangement at his own cost for all the general and special T&P required on the work.

40. All the debris due to the Electrical works shall be removed from the site by the contractor as soon as the work is completed. Similarly rejected materials should be immediately be cleared from the site by the contractor. Otherwise a recovery @ 50/- per day shall be made.

41. GST etc. if any should be included in the rates tendered. Statutory deduction of 1% LWF and Income tax at source shall be made from running bills of the contractor.

42. The copper wire to be used on the work shall be multi-strand and ISI marked.
43. The agency shall obtain prior approval for makes and models of Items to be used from the Engineer-in-charge.

44. Any accident / injury happened to the worker during the course of duty, the sole responsibility lies on the contractor for accident / injury. Any risk cover and compensation if necessary in this regard shall be the responsibility of the contractor and the department is not liable for payment of any compensation, damages etc. in any way.

45. All dismantled materials shall be accounted properly, carried to the departmental Stores / Stores of the Client in the campus and stacked properly as directed by the JE(E)/AE(E).

46. The work shall be carried out in occupied buildings and with No/minimum hindrance to their normal functioning.

47. The portion of conduit and switch boxes laid on wall shall be recessed on existing plastered wall by neatly cutting chassis (with cutter machine), re-plastering and finishing. Nothing extra on this account is payable.

48. The main contractor and / or his Associated electrical Contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-charge and will comply with the remarks therein.

49. The Electrical works shall be carried out by the contractor, side by side with the progress of the civil works.

50. The contractor shall submit the completion plan separately in triplicate on blue print/ computer plotted with one set on tracing —Cloth as per Clause-8A of the contract within 30 days of the completion of work.

51. The conduit layout / drawings for panels / other documents pertaining to E&M services and information in the following format shall have to be submitted for evaluation & approval, in association with respective Associate Contractor (selected by successful bidder / Main Contractor) within 120 days of award of work.

S No	**E&M Work**	**Information to be furnished by the successful bidder**
1	Internal Electric Installation	Single line diagrams for distribution of power and lighting, panel drawings, conduit layout, cable routing, earth locations, detailed technical particulars of all items proposed to be used etc. and any other diagrams drawing required for the work.

52. The materials used in the work shall be one of the approved makes mentioned in Annexure-A

ADDITIONAL CONDITIONS

Name of work: **Construction of Additional floor with light-weight structure at AVNL Office Building, Avadi. (Electrical Portion)**

1. The work shall be carried out in accordance with the CPWD General Specification for electrical works (Part I Internal 2013, Part II external 1995 and Part –IV Sub Station) as amended up to date. The installation shall comply with the requirements of Indian Electricity Rules 1956 as amended up to date and NEC 2011.

2. All repairs and patch work shall be neatly carried out to match with the original finish and to the entire satisfaction of Engineer-in-Charge. Any damage done to the building during the execution of electrical work shall be the responsibility of the electrical contractor and the same will be made good immediately at his own cost to the satisfaction of the Engineer-in-Charge. Any expenditure incurred by the department in this connection shall be recovered from the contractor and decision of the Engineer-in-Charge about recovery shall be final.

3. The contractor has to make his own arrangement for stores and watch & ward and no extra claim for this will be entertained.

4. The contractor has to make his own arrangement at his own cost for all the general and special T&P required on the work.

5. All the debris due to the Electrical works shall be removed from the site by the contractor as soon as the work is completed. Similarly rejected materials should be immediately be cleared from the site by the contractor. Otherwise a recovery @ 50/- per day shall be made.

6. The Cabling and wiring route shall be marked in drawing first and got approved from Engineer-in-Charge.

7. Earthing lugs shall be provided for connecting all earth wires to all switch boxes / boards without any extra cost.

8. GST etc. if any should be included in the rates tendered. Statutory deduction of 1% LWF and Income tax at source shall be made from running bills of the contractor.

9. The copper wire to be used on the work shall be multi-strand and ISI marked.

10. The agency shall obtain prior approval for makes and models of Items to be used from the Engineer-in-charge.

    53. Any accident / injury happened to the worker during the course of duty, the sole responsibility lies on the contractor for accident / injury. Any risk cover and compensation if necessary in this regard shall be the responsibility of the contractor and the department is not liable for payment of any compensation, damages etc. in any way.

54. All dismantled materials shall be accounted properly, carried to the departmental Stores / Stores of the Client in the campus and stacked properly as directed by the JE(E)/AE(E).

55. The work shall be carried out in occupied buildings and with No/minimum hindrance to their normal functioning.

56. Care should be taken by the contractor to avoid damage to the building during execution of his part of the work. The contractor shall be responsible of repairing all damages and restoring the same to their original finish at his cost.

57. The portion of conduit and switch boxes laid on wall shall be recessed on existing plastered wall by neatly cutting chassis (with cutter machine), re-plastering and finishing. Nothing extra on this account is payable.

58. The materials used in the work shall be one of the approved makes mentioned in Annexure-A.

Wherever specialized agencies are required to be associated, the same shall be done immediately on award of work. Failure to do the same will be sufficient reason to terminate the contract/ department to take necessary action to carry out these portion of work at the risk and cost of the original contractor.

ANNEXURE-A
LIST OF APPROVED MAKE OF MATERIALS FOR USE

a) **Materials shall satisfy the revised preference to make in India order issued vide Order No. P45021/2/2017-PP (BE-II) dated 04.06.2020 of the Ministry of Commerce and Industry, Government of India.**

INTERNAL ELECTRICAL INSTALLATIONS		
S.NO	**NAME OF THE PRODUCT**	**MANUFACTURED BY**
1	PVC insulated copper conductor FRLS copper ISI marked	Anchor/ Finolex/ Havells/ RR Kabel/ L&T/ KEI/ Polycab/ Orbit
2	MS Conduits (ISI Marked)	AKG/ BEC/ RMCON/ Jindal/ TATA/ Zenith Birla/ NIC
3	PVC Conduit (ISI Marked)	Avonplast/ AKG/ Precision/ Modi/ Anchor/ Ploycab/ Finolex/ BEC/ Konseal/ Asian/ Anchor/ NIC
4	MCB/ELCB/ RCCB	Legrand/ Siemens/ Schneider/ ABB/ GE/ Hager/ L&T/ Anchor/ Havells/ BCH/ C&S
5	Distribution Boards (DB)	Legrand/ Siemens/ Schneider/ ABB/ GE/ Hager/ L&T/ Anchor/ Havells/ BCH/ C&S
6	Modular Type switches & Sockets/ GI Boxes/ T.V/ Telephone/ LAN socket outlet etc. for Normal applications	Legrand-Myrius-Arteror/ Schneider-Opale-Livia/ MK Elements/ Crabtree/ Panasonic/ Havells(ORO)/ MK-Logic plus/ Honeywell(Benz Plus)/ Anchor(Roma plus)/ Crabtree-Athena/ Polycab/ C&S/ Zencilo & Panasonic/ ABB
7	DLP Trunking	Legrand/ OBO Betterman/ Schneider/ MK/ L&T
8	Modular Type Switches & Sockets/ Fan regulator/ RJ-45 Data Socket for CMS applications	Legrand-Myrius/ Carabtree-Athena/ MK-Logic plus/ Honeywell BenzPlus/ Anchor(Roma Plus)/ Schneider (Livia)/ Havells(ORO)/ Polycab/ C&S/ Zencilo & Panasonic
9	AC Ceiling fans (5 Star rated)/Wall Fans/ Pedestal Fans.	Crompton/ Orient/ Havells/ Bajaj/ Usha
10	BLDC Ceiling fans	ATOMBERG-Efficio/ Havells Efficiencia Neo./ Usha Technix BLDC
11	BLDC Fresh-Air Fans/ Wall Fans	Atomberg/ Havells
12	Exhaust Fans	Crompton/ Orient/ Havells/ Bajaj/ Usha/ Almonard
13	Air Circulator Fans	Crompton/ Orient/ Havells/ Bajaj/ Usha/ Almonard
14	All LED fittings (Indoor/Outdoor fittings)	Philips/ Trilux/ Wipro/ Havells/ Crompton/Bajaj/Lighting Technologies/ K-Lite
15	PVC Batten/Angle Holder	Anchor/ Salzer/ Havells/ Emporer/ K555

16	Architectural Street Lighting Poles & Decorative Brackets	K-Lite/ Lustre/ Havells/ Valmont
17	Hot Dipped Galvanized Octagonal Poles	K-Lite/ Lustre/ Havells/ Bajaj/ Valmont
18	Water Supply Pumpsets	Kirlosker/ Lubi/ Crompton Greaves/ ABB
19	Star-Delta/ DOL Starter	Legrand/ L&T/ Siemens/ ABB/ BCH
20	Ball bearings	Tata/ SKF/ NBC
21	Ball Valve	Zoloto/ Sant/ Honeywell/ Kartar
22	uPVC Pipes	Ashirwad/Finolex/Surya/Jindal/Apollo
23	GI Pipes (ISI marked)	Jindal/ TATA/ Zenith Birla/ SAIL
24	Geyser	Recold/ AO Smith/ Havells/ Crompton
25	Call bell/Buzzer	Siemens/L&T/ Moeler/ M.K./Anchor/ Havells/Philips.
26	Polycarbonate Junction box	Legrand/ Hensel/ Sintex/ Naptune
27	Celing rose	Antex/ Leader/ Anchor/ Emperor
28	Fan Capacitor	Epcos/ Usha/ Havells.
29	Day light/ Occupancy Sensor	Legrand/ Schneider/ Johnson Control/ ABB/ Hager/ Wipro/ Bajaj/ Philips
30	Industrial Socket	L&T/ Siemens/ Schneider/ABB/ Legrand
31	Splash proof Industrial Switch/ Socket Box (IP Rated)	L&T/Siemens/Schneider/ABB/ Legrand
32	Emergency signage	Bajaji/Mr lite/ Glolite

SUB-STATION & PANELS		
S.NO	**NAME OF THE PRODUCT**	**MANUFACTURED BY**
1	Transformer (Oil type/Dry type)	Crompton Greaves/ Kirloskar/ ABB/ AREVA/ Prolec/ GE/ ALSTOM/ Siemens/ BHEL/ Wilson/ Schneider/ Voltamp
2	Packaged Substation/ Unitised Substation	Crompton Greaves/Amararaja/ABB/Voltamp.
3	HT Panel	ABB/ Siemens/Schneider/System control/Kirloskar/BK Power
4	HT Cables	Havells/ Gloster/ Finolex/ KEI/ Polycab.
5	HT Cables Jointing Kits	Rayhem/ 3M/ CCI-Xicon/ Denson/ M-seal
6	LT Cables (Copper/ Aluminium)	Gloster/ Havells/ Universal/ Finolex/ KEI/ RPG cables/ RR Kable/ Henlay/ Polycab/ Orbit.
7	Cable glands	Jainsons/ Comet/ Dowells/ Prabath/ Polycab/ Peeco/ Gripwel/ Raychem/ Grandlay
8	Cable Lugs	Jainsons/ Comet/ Dowells/ Prabath/ Polycab/ Peeco/ Gripwel/ Raychem/ Grandlay/Schneider Electric

9	Cable trays (hot Dip Galvanised)	RMCON/Profab/Indiana/MBM/Legrand/BEC
10	DWC Pipe	Gemini/Rex/Duraline
11	Rising main, End feed Unit, Tap off box	C&S/Legrand/Schneider/Siemens/L&T/ABB-Megaduct (if Air insulated)/ Godrej (S.M.A.R.T).
12	Sandwich type bus trunking	Legrand/ L&T/ Schneider/ C&S
13	Floor Trunking/Raceway (GI)	Honeywell MK/ OBO Betterman/ Legrand/ Profab
14	Electrical LT Panel Boards/Feeder Pillars/Meter Boards/Control & Relay Panels (CPRI Approved)	CPRI Approved
15	Type Tested Assembly(TTA) Electrical Panel Boards confirming to IEC 61439	Legrand/ L&T/ Schneider/ ABB/ Siemens **(Note: The Panel drawings shall be submitted with Validation Signature from the OEM)**
16	Air Circuit Breaker	Siemens/ ABB/ L&T/ C&S/ Schneider/ Legrand/ GE/ Hager/ Havells/ BCH
17	Moulded Case Circuit Breaker (MCCB)	Siemens/ ABB/ L&T/ C&S/ Schneider/ Legrand/ GE/ Hager/ Havells/ BCH
18	Changeover switches, SDFU	L&T/ ABB/ Schneider/ C&S/ Legrand/ Havells/ GE/ Socomee/ Siemens/ Hager/ Anchor
19	Automatic transfer switch	Havells/ ABB/ Siemens/ L&T/ Schneider/ Legrand/ Hager
20	Timer switch	Schneider Electric/ Legrand/ Hager/ L&T/ ABB/ Siemens/ C&S
21	Selector switches for LT panels	Kaycee/ BCH/ L&T Salzer/ Siemens/ Schneider Electric.
22	Current Transformers for LT Panels	Kappa/ AE/ BCH/ L&T/ ABB/ Siemens/ GE/ MECO/ Schneider.
23	APFC Relay (Microprocessor based)	Siemens/ EPCOS/ L&T/ GE/ ABB/ Schneider/ L&T
24	Contractors for APFC Panels	Siemens/ ABB/ L&T/ GE/ C&S/ Schneider Electric/ Legrand
25	Electronic Load Manager	HPL/ AE/ Schneider/ Mecon/ L&T/ Conzerv
26	M.V Power Capacitors	L&T Heavy Duty Box Type/ Siemens Epcos V (AC) 3PH, 50Hz/ Neptune Model LLM/ Schneider Varplus Energy (MDXL) 440V Range-Box Type
27	Capacitor and Harmonic Block reactor Thyristor Module	L&T/ Schneider/ Neptune (Ducati)/ Legrand
28	Digital Ammeter/ Voltmeter/ Multifunctional Meters	AE/ Mecon/ Schneider/ L&T/ HPL/ C&S/ Conserve/ Kaycee/ Crompton Greaves/ Socomec (diris)/ Siemens/ ABB

29	Analog Panel Metres	AE/ Mecon/ Schneider/ L&T/ HPL/ C&S/ Conserve/ Kaycee/ Siemens
30	Indicating Lamps (LED type)	Siemens/ Teknic/ L&T/ BCH/ C&S/ ABB/ Schneider/ Kaycee
31	Push Buttons	Siemens/ Teknic/ L&T/ BCH/ C&S/ ABB/ Schneider/ Kaycee
32	Relays	SEGC/ Crompton/ Siemens/ GE/ ABB/ Schneider/ L&T
33	Electric insulation mat (ISI marked)	Dozz/ Padmini/ Raychem/ Jyoti Rubber Udyog
34	UPS	Vertiv/ APC/ Numeric/ Eaton/ Mitsubishi/ Emerson
35	Sealed Maintenance Free Battery	Exide/ Amaron/ Luminous

FIRE FIGHTING SYSTEM		
S.NO	**NAME OF THE PRODUCT**	**MANUFACTURED BY**
1	Fire Fighting Pumps	Kirloskar/ Grundfos/ Crompton Greaves/ Bharat Bijlee
2	MS 'C' Class Pipes (ISI marked)	Jindal/ TATA/ Zenith Birla/ SAIL
3	Butterfly Valve	Sant/ Zoloto/ Audco/ Emerald/ Honeywell/ Kartar
4	NRV (Ball Valve)/ Y Strainer	Sant/ Zoloto/ Audco/ Emerald/ Honeywell/ Kartar/ Kirloskar
5	First aid hose reel (ISI marked)	Minimax/ Newage/ Omex/ Safex/ Lifeguard
6	RRL Hose (ISI marked)	Newage/ Arihant/ Winco/ Padmini
7	Double/ Single Headed Hydrant Valve/ Branch pipe (ISI marked)	Newage/ Arihant/ Winco/ Padmini/Kartar/Eversafe
8	Sluice Valve (ISI marked)	Sant/ Zoloto/ Kalpanan/ Honeywell/ Kirloskar
9	Air Release Valve	Sant/ Zoloto/ Audco/ Normex/ Honeywell/ Kartar/ Leader
10	Pressure Switch	Danfoss/ Indfos/ Delta Control
11	Pressure Guage	Feibig/ H. Guru/ Emerald/ Waaree
12	Sprinklers (UL listed only)	HD Fire/ Tyco/ Safex/ Newage/ Omex
13	Sprinkler flexible pipe (UL listed only)	HD Fire/ Tyco/ Safex/ Newage/ Omex
14	Paint/ Primer	Asianpaints/ Nerolac/ Berger
15	Pressure Guage	Feibig/ H. Guru/ Emerald/ Waaree
16	Fire Extinguishers	Minimax/ Safex/ Ceasefire/ Usha Fire Safety/ Kanex

FIRE ALARM SYSTEM		
S.NO	**NAME OF THE PRODUCT**	**MANUFACTURED BY**
1	Addresable/ Semi-Addressable Multi sensor Smoke Detrectors/Heat detectors	Notifier/ Bosch/ System Sensor (Honeywell)/ Siemens/ GE-Security (Edward)/ Johnson Control
2	Addressable/ Semi-Addressable Manual call box	
3	Addressable/ Semi-Addressable Main Fire Alarm Control Panel with Battery Backup/ Repeater Panel	
4	Addressable Control Module/ Isolator Module/ Monitor Module	
5	Hooters/ Horn cum Strobe/ Speaker	
6	Digital Amplifier/Emergency Voice Evacuation System	
7	Talk back system	
8	Response Indicator	
9	Fire Survival Cable	RR Kabel/ Beldon/ Grandlay/ Bosch/ Siemens/ Notifier/ Honeywell/ GE-Security (Edward)/ Johnson Control

LAN/ CCTV/ EPABX/ PA / AV SYSTEMS		
S.NO	**NAME OF THE PRODUCT**	**MANUFACTURED BY**
1	CAT 5/6 Cables	Legrand/ Molex/ Finolex/ Commscope/D-Link/ Havells/Panasonic/ Henlay/ Digilink/ Belkin/ Belden/ KEI
2	OFC Cable	Finolex/ SterliteTech/ Corning/ Panduit/ Siemens/ D-Link
3	Telephone Cable	Legrand/Delton/AMP/Havells/Superlite/Orbit/Laser Cables/Great White.
4	TV Coxial cable	Havells/Finolex/Anchor/Delton/RR Kabel
5	Speaker/ Microphone Cable	Finolex / Bonton / Havells / Polycab / KEI / RR Kabel/ Liberty AV
6	Dome/ Bullet/ PTZ CCTV Cameras	Honeywell/ Bosch/ CP-Plus/ Dahua/ Sony
7	Network Video Recorder	Honeywell/ Bosch/ CP-Plus/ Dahua/ Sony

	(NVR)	
8	Network Switch/ Wi-Fi Router	Netgear/ HP/ Cisco/ Honeywell/ Bosch
9	Networking/ Server Rack	Netrack/Belden/Dynamic/Legrand/ HCL/ Valrack
10	Server	IBM/ Dell/ HP/ Cisco
11	Patch panel/ Patch cord/ Fiber Patch Cord/ Pigtails/ LIU/ Connectors	Netgear/ Amp/Belden/Panduit/Legrand/Cisco
12	LED Display	Sony/ Samsung/ LG
13	Weather Proof Boxes	Adlec/System Power Control /Advance/Tricolite
14	Projector	Sony/ Panasonic/ BARCO
15	Chairman, Delegate, Gooseneck Microphone Conference Control Unit	BOSCH/ Bose/ SENNHEISER/ Yamaha
16	Speaker	Bose/ JBL/ Bosch
17	Laptop	DELL/ Lenovo/ HP
18	Motorized Screen	SUVIRA / LIBERTY / GRANDVIEW
19	AUDIO MIXER	ALLEN & HEATH / YAMAHA / DIGICO
20	AMPLIFIER	BOSE / BOSCH / ELECTROVOICE / DYNACORD / LABGRUPPEN
21	CABLE CUBBY/ Wall plate	LOGIC / LEGRAND / BESTNET

Sl. NO	Item	Makes
1	Tower type Air conditioners (Floor Mounted)/ Split Air-Conditioners	Daikin/ Toshiba/ O General/ Mitsubishi/ Bluestar/ LG/ Samsung/ Carrier/ Carrier Midea / Voltas/ Hitachi
2	Voltage Stabilizer	V-Guard/ Bluebird/ Voltas
3	Copper refrigerant piping	Mettube/ Hindustan/ Rajco/ Totaline/ Jindal Refrigeration (Seamless and conforming to ASTM B 280 C12000)
4	Insulation: Elastomeric Nitrile Rubber foamed tubes	Vidoflex/ Armaflex/ Armaduct/ K-Flex/ Insuflex/ Eurobatex/ Aflex/ Superloan
5	Refrigerant Piping Insulation	Trocellen /Supreme/ Armaflex/Armacell/ Superlone/ Paramount
6	PVC/UPVC Pipe	Ashirwad /Surya /Finolex /Apollo

Note: In case make of any equipment or material is not specified in the NIT, the decision of the Engineer-in-Charge in this regard will be final.

Assistant Engineer (E)(P)
Chennai - I, CPWD, Chennai.

Executive Engineer (E)
Chennai - I, CPWD, Chennai.

PART- D

SCHEDULE OF QUANTITIES
FOR
CIVIL & ELECTRICAL WORKS

Schedule of Quantity (Civil)					
Name of work :- Construction of Additional floor with light weight structure at AVNL Office Building, Avadi. SH I: Civil works (Including Providing Internal water supply, Sanitary Installations, Workstation with furniture etc.)					
S.No	**Description**	**Quantity**	**Unit**	**Rate**	**Amount**
1	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
1.1	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	14.00	Cum	10437.75	146128
1.2	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources).	2.00	Cum	8986.30	17973
2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	4.00	Cum	12136.34	48545
3	Centering and shuttering including strutting, propping etc. and removal of form for :				
3.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	50.00	Sqm	776.78	38839
3.2	Columns, Pillars, Piers, Abutments, Posts and Struts	30.00	Sqm	1014.01	30420
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				

4.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	500.00	Kg	113.76	56882
5	Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry of approved sizes with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	24.00	Cum	10754.46	258107
6	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.				
6.1	Granite stone slab of colour black, Cherry/Ruby red				
6.1.1	Area of slab upto 0.50 sqm	3.00	Sqm	5710.32	17131
7	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	40.00	Sqm	1337.47	53499
8	Extra for providing frosted glass panes 4 mm thick (weight not less than 10 kg per sqm) instead of ordinary float glass panes 4 mm thick (weight not less than 10 kg per sqm) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	31.00	Sqm	186.07	5768

9	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
9.1	Fixed to openings /wooden frames with rawl plugs screws etc.	400.00	kg	251.42	100567
10	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISi, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	7.00	Each	1037.06	7259
11	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete				
11.1	200x10 mm	6	Each	105.17	631
12	Providing and fixing aluminium handles ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
12.1	125mm	6	Each	69.88	419
13	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge.	7.00	each	896.66	6277
14	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	15.00	Mtr.	602.25	9034

15	Providing and fixing to existing door frames.				
15.1	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	5.00	Sqm	4735.08	23675
16	Providing and fixing factory made uPVC glazed/wire mesh windows/doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge. Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231				

	shall be paid separately.				
	Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for : (i) Sites with basic wind speed > 45 m/sec as per IS 875 – Part 3(ii) Sites with structure height more than 20m for all wind speeds				
16.1	Two track two panels sliding window with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.				
16.1.1	Using R3 series with frame (55mm & above) x (40mm & above) & sash (30mm & above) x (55mm & above) with zinc alloy (zamak) powder coated handle on every panel along with multi-point locking system (Height upto 1.8m).	4.00	Sqm	9281.71	37127
17	Three track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.				
17.1	Using R3 series with frame (98mm & above) x (40mm & above) & both glazed and fly screen sash (30mm & above) x (55mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system. (Height upto 1.8m).	10.00	Sqm	11470.42	114704
18	Fixed window / ventilator with mullion / transom.				
18.1	Using R1 series with frame (33mm & above) x (35mm & above) & mullion (33mm & above) x (50mm & above). (Height upto 0.90 meter)	2.00	Sqm	9657.17	19314
19	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1200.00	Kg	141.03	169237
20	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				

20.1	Hot finished welded type tubes.	5000.00	Kg	205.06	1025294
21	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
21.1	Size of Tile 600x600 mm	120.00	Sqm	1638.62	196635
22	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
22.1	Size of Tile 600x600 mm	10.00	Sqm	1712.04	17120
23	Extra for providing and fixing wind ties of 40x 6 mm flat iron section.	60.00	metre	206.32	12379
24	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
24.1	Ridges plain (500 - 600mm)	15.00	metre	561.54	8423
24.2	Gutter (600 mm over all girth)	78.00	metre	1385.73	108087

25	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/ making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
25.1	GI Metal Ceiling Lay in plain Tegular edge Global white colour tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns	8.00	Sqm	2007.29	16058

26	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.	69.00	Sqm	1797.38	124019
27	15 mm cement plaster on the rough side of single or half brick wall of mix :				
27.1	1:6 (1 cement: 6 fine sand)	140.00	Sqm	404.00	56560
28	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	140.00	Sqm	566.92	79369
29	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
29.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	800.00	Sqm	180.48	144385
30	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	200.00	Sqm	164.61	32921
31	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
31.1	Two Coats	200.00	Sqm	150.63	30126
32	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
32.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	200.00	Sqm	78.00	15601
33	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer -				

	in - charge.				
33.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	62.00	Cum	2567.72	159199
34	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
34.1	For thickness of tiles 10 mm to 25 mm	210.00	Sqm	77.42	16259
35	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	71.00	Cum	278.42	19768
36	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
36.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	1	Each	12733.64	12734
37	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	2	Each	4177.70	8355
38	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2	Each	1696.11	3392
39	Providing and fixing toilet paper holder :				
39.1	CP brass	2	Each	847.77	1696

40	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	2	Each	15821.54	31643
41	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
41.1	20 mm nominal dia Pipes	30.00	Mtr.	353.37	10601
42	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Internal work-Exposed on wall				
42.1	25 mm nominal dia Pipes	20.00	Mtr.	423.57	8471
42.2	32 mm nominal dia Pipes	25.00	Mtr.	547.19	13680
43	Providing and fixing uplasticised PVC connection pipe with brass unions :				
43.1	45 cm length				
43.1.1	15 mm nominal bore:	2	Each	103.11	206
44	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000.00	per litre	11.60	23206
45	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
45.1	15 mm nominal bore:	3	Each	707.21	2122

46	Providing and fixing C.P. brass angle valve for basin mixer and geyser points / EWC/IWC of approved quality conforming to IS:8931 :				
46.1	15mm nominal bore	4	Each	605.79	2423
47	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
47.1	For fixed portion				
47.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	100.00	Kg	560.01	56001
48	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
48.1	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	100.00	Kg	678.73	67873
49	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type ll, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer- in- charge.				
49.1	Pre-laminated particle board with decorative lamination on both sides	8.00	Sqm	1176.56	9412

50	Providing and fixing glazing in aluminium/uPVC door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap/uPVC beading shall be paid in basic item):				
50.1	With float glass panes of 4 mm thickness (weight not less than 12.50 kg/sqm)	31.00	Sqm	1241.32	38481
51	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
51.1	Upto 5mm depth and 5 mm width metre	41.00	Mtr.	102.05	4184
52	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:(i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS : 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.(ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.(iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.(iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	8.00	Sqm	811.80	6494
53	Grading roof for water proofing treatment with				
53.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal	11.00	Cum	8483.25	93316

54	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33 mm thick (galvanized @ 120 grams per sqm including both sides)comprising of main-T runners of size 24x38 mm of length 3000 mm,cross - T of size 24x32 mm of length 1200 mm and secondaryintermediate cross-T of size 24x32 mm of length 600 mm to formgrid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6 mm thick with precut hole on both 25 mm flange to pierce into 12x50 mm or even bigger size dash fastener if require, fixed with Glavanised iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphey wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.				
54.1	With 15 mm thick Tegular edged light weight calcium siliciate false ceiling tiles	120.00	Sqm	2328.01	279361
55	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100 mm upto 200 mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/ balconies/Columns including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.				
55.1	Upto and including 12 mm dia.	96.00	Each	148.94	14298
56	Extra for providing and mixing SBR Polymer in AAC Block masonry work in doses by weight of cement as per CPWD specification and as per the direction of Engineer-in-charge.	30.00	kg	316.00	9480

57	Providing and fixing 12 mm thick frameless toughened glass (fixed glazing) in partitions / walls with necessary weather silicon sealant of approved brand and manufacture all complete as per direction of Engineer-in-charge.	20.00	Sqm	3949.00	78980
58	Providing and fixing 4mm thick and 100mm wide froasted glass louvers in the adjustable louvers with necessary neoprene gaskets/putty all complete as dirtected by the Engineer-in-Charge.(The actual size of glass provided shall be measured for payment and the cost of adjustable louvers shall be paid in basic item).	2.00	Sqm	1364.00	2728
59	Providing and fixing glass fiber mesh(5mmx5mm) for strengthening plaster to be fixed & firmly anchored to the wall surface including the cost of materials, labour, tool all complete as per the direction of Engineer-in-charge.	300.00	Sqm	112.00	33600
60	Providing and fixing 97.0mm thick Gypwall Habito partition consist of GypSerra® ("Patented in India (325062)") Metal framework having maximum reachable height of 3600mm satisfying L/240 criterion at 200Pa, possessing fire rating of 60mins, tested in accordance to BS-476 Part 20 & 22 & sound insulation (Rw) of 43dB, tested in accordance to ISO 10140-2/ASTM E90 & spectrum adaption term as per ISO 717-1, having U-value of 0.425W/m²K & Heavy duty rating as per BS 5234 part 2. Partition comprises of single layer, tapered edge Gypsum Board, certified GreenPro by CII & strategic location of manufacturing plants results in lower carbon emissions. Floor & Ceiling Channel is anchored with Gyproc® Rawl plug Ø8x45mm having Pull Out strength of 6.8KN or Nail**, fixed at 600mm c/c in zig zag manner.				

	Partition includes single layer of 12.5mm thick Gyproc®Habito conforming to IS 2095 Part 1:2011 / EN 520: 2004 - Type A,D,R,I having flexural strength – {Longitudinal > 1010N & transverse > 550N} on both side of framing. GypSerra® Metal frame work, in compliance with BS EN 14195 & manufactured using CR1 Grade Steel as per IS 513, having yield stress of 300MPa & tensile strength of 340MPa with surface finish of AZ150 as per IS 15961/AS 1397 & tested for 500hrs of salt spray test as per ASTM B117, includes 70x34x36x0.5mm GypSerra® C-Stud with lip of 6.5mm and H-cutout on web enabling the services to pass, having moment of inertia 61909mm4 about major axis, positioned at 610mm c/c in 72x32x32x0.5mm GypSerra® Floor Channel & 72x32x32x0.5mm GypSerra™ Ceiling Channel with flanges bend at 5° acute angle. 70x40x40x0.5mm GypSerra® Noggin Channel to be fitted at the horizontal joints of board. Gyproc®Habito board strip is placed between ceiling channel and soffit when fire rating is more than 30mins Gyproc® Boards to be Screw fixed with Gyproc®Habito Screw of 25mm with 30nos per m2 at 300mm at center and 150mm at periphery. 50mm Glasswool of density 20kg/m3 shall be placed in Metal framework with the help of holding Clip.				
60.1	Edges & joints to be finished with Gyproc® Pro-Fill JC conforming to ASTM C475 & Gyproc®Paper tape. Periphery & cut-outs of the partition to be treated with suitable Fire & Acoustic Sealant. All the performance test are carried out at NABL accredited/ government approved lab. Note: 1)Gyproc® Control Joint to be provided at every 10m c/c along the length of wall. 2)Floor channel to be wrapped with 70µ Self Adhesive LDPE moisture barrier film. 3)For partition height upto 5m, 300mm stud overlapping is required. 4)Gyproc® Levelline CT corner bead to be applied at all corners.	70.00	Sqm	4597.95	321857
61	Providing and fixing PVC beading or corner beading in ceramic tile dado work to make smooth at the corners as directed by Engineer-in-charge	29.00	metre	61.00	1769

62	Providing and laying Anti skid Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	8.00	Sqm	1512.00	12096
63	Providing and fixing UPVC trap of self cleaning design with SS hinged grating including cost of cutting,dismantling existing trap making good the walls and floors wherever required etc complete as directed by the Engineer in charge.(110 mm inlet and 75 mm outlet)	3	Each	179.00	537
64	Providing and fixing SS Grating (Square shape of size 130mm x130mm) with necessary waste hole provision and finishing with white cement etc. of approved brand as per direction by engineer in-charge.	2	Each	242.00	484
65	Providing and fixing SS Grating (Square shape of size 130mm x130mm) without waste hole and finishing with white cement etc. of approved brand as per direction by engineer in- charge.	2	Each	242.00	484
66	Providing and fixing C.P Brass two way bibcock of approved brand and quality as directed by Engineer-in- Charge including necessary fittings	2	Each	2267.00	4534
67	Providing and fixing C.P brass handshower (health faucet) with 1m length CP Brass Hose and wall hook of approved brand as directed by the Engineer in charge including necessary screws.	2	Each	1142.00	2284
68	Providing and fixing on wall face unplasticised Rigid PVC SWR conforming to IS : 13592 Type "B' including jointing with solvent cement adhesive complete all as directed by the Engineer-in- charge.				
68.1	75mm diameter pipe	20.00	Mtr.	348.00	6960
68.2	110mm diameter pipe	20.00	Mtr.	468.00	9360
69	Providing and fixing on wall face unplasticised Rigid PVC SWR pipe fittings conforming to IS : 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				

69.1	75mm coupler	4	Each	123.00	492
69.2	110mm coupler	4	Each	165.00	660
69.3	75mm Terminal Guard	2	Each	89.00	178
69.4	110mm Terminal Guard	2	Each	112.00	224
70	Providing and fixing CPVC Ball valve of 25mm nominal bore in new CPVC pipe line of approved quality as per direction of Engineer-In-Charge	4.00	Each	549.00	2196
71	Providing and applying 2 component liquid applied, high build elastomeric polyurethane waterproofing system which complies to ASTM C 836 for the minimum thickness of 1.5 mm DFT built in a single coat. Preparing concrete surface which should be minimum 28 days old and M25 grade having residual moisture content < 8 %, carry out mechanical grinding to achieve CSP 3 - CSP 5 surface profile, clean the surface to remove loose dust, dirt, loose mortar, curing compound etc.,treat cracks on substrate wider than 1 mm by opening them in v-groove of size 5 mm x 10 mm and filling with polyurethane sealant, PU sealant, mixing & application of primer using suitable brush/roller coverage @ 5-8 sqmt/kg, allow the primer to become tack free approx. for 4 to 6 hrs depending upon ambient temperature, followed by mixing and application polyurethane waterproofing system using suitable steel trowel/notched trowel, coverage @ 2.0-2.1 kg/m2/coat to achieve minimum DFT of 1.5 mm in single coat on horizontal surface followed by using spike roller to	69.00	Sqm	2640.00	182160

	de-aerate entrapped air. For vertical surface application shall be carried out in 3 coats to achieve 1.5 mm DFT using metal scrapper in max 500 mic/DFT/Coat coverage 0.65-0.7 kg/m2/coat; allow a touch drying time of 3-4 hours before application of subsequent coat, . Water ponding shall be carried out afer 4 days of completion of PU coating for a duration of not more than 48 hours. The applied coating is to be allowed to cure for a minimum of 7 days before laying screed. Polyurethane waterproofing system shall be exhibiting properties i.e. Solids by Volume :> 98%, Sr. Gravity-1.33+/-0.1 g/cc, Tensile strength (ASTM D412) ≥6 N/mm2, Elongation (ASTM D412) : ≥600%, Tear Resistance (ASTM D624) : >35 N/mm, Shore A Hardness (ASTM D2240): >70, Bond Strength to concrete (ASTM D 7234) - >1.5 Mpa, Crack Bridging ability(Static) (EN 1062-7)- > 3.2 mm, Puncture Resistance (ASTM E154) - > 300 N, Recovery after elongation (ASTM D412)>85%, Resistance to hydrostatic head (EN12390-8) - > 70 Mtr, Root Resistance (CEN TS/14416) : Pass Top Coat over PU/Polyurea Coating Protection to the waterproofing system:Supplying and applying protective geo textile fabric of 120GSM over the entire membrane with proper overlaps. Horizontal Protection:Laying an avg of 75mm thick M20 fibrated grade concrete screed Vertical protection:Supplying and applying 15mm thick polymeric waterproof plastering with CM 1:4 for the vertical surface, admixed with integral waterproofing compound. Dr.Fixit Pidiproof LW+ at 0.2litre/bag of cement. The rate includes all materials excluding grade concrete, surface preparation, labour for application of membrance, and the work shall be completed in all respects as per the manufacturers specification and the direction of Engineer-in-charge.The contractor should engage specialized agency for execution of this item of any apporved brand as per directions of Engineer-In-Charge. M20 Grade Concrete shall be paid extra. Nothing extra shall be payable on this account				

72	Provising and Fixing of Roof with minimum 80mm thick pre-fabricated PUF Roofing Panels of approved colour and shade of any approved make including all standard fixing accessories with seam weld structure system at roof level over the existing M.S base frame/truss work, all complete & as per the direction of the engineer in charge, at all levels and heights on linear and curved profile roofs.Top and Bottom layer of Roofing panel should have minimum 0.4mm thick Pre Coated GI Lamination. Insulation - PUF having density of not less than 40kg/m3. Sealing of Panel Joints - White Siliconé Sealant or as approved, Sealing of Penetration - White Silicone Sealant or asapproved. The installation shall be complete with supports, sealing of joints,flashing, accessories and penetrations complete as per specifications and as approved.The rate is inclusive of Supply, Transport and Installation with all necessary accessories. Nothing extra shall be payable on this account	155.00	Sqm	2871.00	445005
73	Providing and Fixing 32mm dia CPVC gate valve of approved brand and quality as per direction of Engineer in Charge	1.00	Each	620.00	620
74	Providing and fixing 32mm dia Stainless Steel Handle (600mm long) of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.	14.00	Each	2529.00	35406
75	Providing and fixing Linear Workstation Size of Durian/Godrej/IKEA or equivalent brand with following minimum speciifcations as per directions of Engineer-In-Charge : 1500L X 750D X 750Ht Top : 25mm Thick Prelaminated Partical Board With 2mm Thick PVC Edgebanding. Understructure: 18mm Thick Gable End In Prelam Partical Board With Pvc Edgebanding 600L X 750Ht Screen :67mm thk Sliding Tile Base partition made of M.S. section of 1200mm height in main Span covered with aLuminum trims with powder coating finish. Pedestal: 18mm Thick Pedestal In Prelam Partcial Board With Keyboard Tray & Cpu Trolly	19.00	Each	54264.00	1031016

76	Providing and fixing L-Shaped workstation Size of Durian/Godrej/IKEA or equivalent brand with following minimum speciifcations as per directions of Engineer-In-Charge: 2000mm X 750D X 750Ht Top : 25mm Thick Prelaminated Partical Board With 2mm Thick PVC Edgebanding. Understructure: 18mm Thick Gable End In Prelam Partical Board With Pvc Edgebanding. Screen :67mm thk Sliding Tile Base partition made of M.S. section of 1200mm height in main Span covered with aluminum trims with powder coating finish. Pedestal: 18mm Thick Pedestal In Prelam Partcial Board With Keyboard Tray & Cpu Trolly.	2.00	Each	88732.00	177464
77	Providing and fixing cabin table with Side Storage Size of Durian/Godrej/IKEA or equivalent brand with following minimum speciifcations as per directions of Engineer-In-Charge : 1650L X 750D X 750Ht and Side Storage Will Be 900L X 450D X 750Ht. Top : 25mm Thick Top In prelam Partical Board With 2mm thick Pvc Edgebanding. Gable End: 25mm Thick Gable End In Prelam Partical Board With 2mm Thick Pvc Edgebanding. Modesty Panel : 18mm Thick Modesty Panel In Prelam Partical Board. Side Storage : 900mm X 450D X 750Ht in Prelam Partical Board With Neccessary fittings	2.00	Each	44989.00	89978
78	Providing and fixing cabin table with Side Storage Size of Durian/Godrej/IKEA or equivalent brand with following minimum speciifcations as per directions of Engineer-In-Charge : 2000L X 750D X 750Ht Side Storage Will Be 950L X 450D X 750Ht. Top : 25mm Thick Top In prelam Partical Board With 2mm Thick Pvc Edgebanding. Gable End: 25mm Thick Gable End In Prelam Partical Board With 2mm Thick Pvc Edgebanding. Modesty Panel : 18mm Thick Modesty Panel In Prelam Partical Board. Side Storage : 900mm X 450D X 750Ht in Prelam Partical Board With Neccessary fittings	1.00	Each	57447.00	57447

79	Providing and fixing Low Height Storage Size Of : 1200L X 450D X 1200ht with Top- 18mm thick In Prelam Partical Board With Pvc Edgebanding. Side - 18mm thick In Prelam Partical Board With Pvc Edgebanding. Shutter - 18mm thick In Prelam Partical Board With Pvc Edgebanding. Back -9mm thick In In Prelam Partical Board With Pvc Edgebanding. Shelve - 18mm Thick In Prelam Partical Board With Pvc Edgebanding. Edge -All expose area with 2mm thick PVC edge lipping , Handle - C- Handle Hardware -Telescopic channel & MetalMinifix , laveller & lock fittings	2.00	Each	33915.00	67830
80	Providing and fixing Low Height Storage Size of Durian/Godrej/IKEA or equivalent brand with following minimum speciifcations as per directions of Engineer-In-Charge : 1500L X 450D X 1200ht with Top- 18mm thick In Prelam Partical Board With Pvc Edgebanding. Side - 18mm thick In Prelam Partical Board With Pvc Edgebanding. Shutter - 18mm thick In Prelam Partical Board With Pvc Edgebanding. Back -9mm thick In In Prelam Partical Board With Pvc Edgebanding. Shelve - 18mm Thick In Prelam Partical Board With Pvc Edgebanding. Edge -All expose area with 2mm thick PVC edge lipping , Handle - C- Handle Hardware -Telescopic channel & MetalMinifix , laveller & lock fittings	1.00	Each	45127.00	45127
81	Supplying Chairs of Durian/Godrej/IKEA or equivalent brand with following minimum speciifcations as per directions of Engineer-In-Charge. Material & Subtype : Mesh - Fabric Upholstery Material Mesh Filling Material : Moulded Foam, Plywood Seat Material : Fabric Leg Material : Chrome Finish : Matte Colour & Colour Family : Black Dimension : (W)630mm X (D)660mm X (H)1040mm Mechanism : Self Weight Multi Locking Function : Revolving, Pneumatic Height Lift Assembly Type : Knock Down	27.00	Each	16334.00	441018

82	Supplying Chairs of Durian/Godrej/IKEA or equivalent brand with following minimum speciifcations as per directions of Engineer-In-Charge. Material & Subtype Leather - Semi Aniline Leather#SolidWood - Steam Beech Wood, Upholstery Material Leather Seat Material Leather - Semi Aniline Leather Finish Matte, Colour & Colour Family Brown - Khaki Dimension (W)700mm X (D)700mm X (H)1260mm, Mechanism Center Tilt Mechanism, Seating Capacity 1 Seater, Seating Height 580mm, Maximum Seating Height 580, Function Pneumatic Height Lift, Revolving Seat, Tilt Tension Control, Size Standard, Style Modern, Assembly Type Knock Down	3.00	each	29457.00	88371
				TOTAL	**7062033**

SCHEDULE OF QUANTITES (ELECTRICAL)					
Name of Work: Construction of Additional floor with light weight structure at AVNL Office building, Avadi.					
Sl.No	**Description**	**Qty.**	**Unit**	**Rate per Unit**	**Amount**
	SUB HEAD - I : WIRING & DB				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
1.1	a) Group C	77	Point	1518.00	116886.00
2	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/CMS as required.				
2.1	3 x 1.5 sq. mm	140	Mtr	98.00	13720.00
2.2	3 x 4 sq. mm	300	Mtr	213.00	63900.00
2.3	6 x 4 sq. mm	170	Mtr	410.00	69700.00
2.4	4 X 6sq. mm + 2 X 6 sq. mm earth wire	20	Mtr	780.00	15600.00
2.5	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	30	Mtr	1040.00	31200.00
3	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
3.1	a) 2 Pair	280	Mtr	39.00	10920.00
4	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
4.1	20 mm	300	Mtr	132.00	39600.00
4.2	25 mm	200	Mtr	150.00	30000.00
4.3	32 mm	50	Mtr	190.00	9500.00

5	Supplying & Fixing of Following size DLP- UPVC Cable Management system on surface as required confirming to GENERAL SPECIFICATIONS FOR ELECTRICAL WORKS (PART-I INTERNAL 2013).				
5.1	Supplying and fixing of PVC Cable Management System of 100/105mm X 50mm size to manage the cables/ wires in asthetic manner, suitable for installation on surface including base trunking and flexible cover etc as required.	40	Mtrs	1361	54440.00
6	Supplying & Fixing of following matching, finishing accessories suitable for 105 x 50 mm PVC cable management system as required.				
6.1	a) Seperation partition	40	Mtr	265	10600.00
6.2	b) End cap left or right	6	Each	253	1518.00
6.3	c) Changeble internal angle	4	Each	691	2764.00
6.4	d) Changeble external angle	4	Each	513	2052.00
6.5	e) Flat angle	4	Each	642	2568.00
7	Supplying and fixing of PVC Mini Trunking Cable Management System of 32mm X 20mm size to manage the cables/ wires in asthetic manner, suitable for installation on surface including base trunking, flexible cover and all necessary accessories etc as required.	20	Mtr	230.00	4600.00
8	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
8.1	5/6 Amps Switch	72	Each	107.00	7704.00
8.2	15/16 Amps Switch	24	Each	161.00	3864.00
8.3	3 pin 5/6 A socket outlet	72	Each	126.00	9072.00
8.4	6 pin 15/16 A socket outlet	24	Each	204.00	4896.00
8.5	Telephone socket outlet	24	Each	153.00	3672.00
8.6	TV antenna socket outlet	3	Each	153.00	459.00
8.7	RJ-45 Data socket outlet	24	Each	777.00	18648.00
8.8	Bell push	3	Each	145.00	435.00
9	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as	15	Each	41.00	615.00

	required.				
10	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.			0.00	
10.1	1 or 2 Module	21	Each	308.00	6468.00
10.2	3 Module (100mmX75mm)	42	Each	338.00	14196.00
10.3	6 Module	21	Each	432.00	9072.00
11	Supplying and fixing following size/ modules, in the existing 105 x 50 mm Cable Management System for modular switches in recess etc as required.				
11.1	a) 1/2 Module	6	Each	288.00	1728.00
11.2	a) 3 Module	6	Each	332.00	1992.00
11.3	a) 6 Module	3	Each	443.00	1329.00
12	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	19	Each	493.00	9367.00
13	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	5	Each	606.00	3030.00
14	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	3	Each	102.00	306.00
15	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.				
15.1	a) 1 run of cable	150	Mtrs	59.00	8850.00
15.2	a) 2 run of cable	100	Mtrs	99.00	9900.00
16	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providng and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	2	Each	699.00	1398.00

17	Supplying & fixing suitable size GI box wih modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve, including connections, painting etc. as required.	8	Each	752.00	6016.00
18	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) a) 16 way, Double door	1	Nos	2395.00	2395.00
19	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) a)6 way (4 + 18), Double door	2	Nos	5146.00	10292.00
20	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
20.1	a) Single pole	50	Each	265.00	13250.00
21	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
21.2	a)40 A	1	Each	450.00	450.00
22	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as				

	required.				
22.1	a) 63 A	2	Each	1070.00	2140.00
	SUB HEAD - II : LED FITTINGS & Fans and Acs				
23	Supplying, Installation, Testing and Commissioning of 36 Watt Energy Efficient 2ft X 2ft LED Panel Recess Type Luminaire designed for installation in Grid/Armstrong false ceiling made with CRCA Powder coated housing with High transmittance polystyrene opal diffuser for glare free symmetric light distribution. The Luminaire shall have following specifications as Ingress Protection : IP20, Unified Glare Rating : UGR<19, System Efficacy ≥ 100 lm/W, CRI ≥ 80, Colour Temperature Range : 5700K - 6500K, Complete system with High performance Constant Current Electronic Driver suitable for operation on 230V, 50Hz AC Supply including connection with 1.5 Sq.mm. FRLS PVC insulated copper wire single core cable duly covered in flexible conduit from point to fitting, earthing the fitting etc. complete including providing suitable metallic chain support from ceiling to avoid weight on false ceiling etc as required.	50	Each	6066.00	303300.00
24	Supplying, Installation, Testing and Commissioning of 18 Watt Energy Efficient Surface Type Round/Square LED Downlighter Type Luminaire madeout of Pressure Die Cast Aluminium housing with optimized heat sink for effective thermal management with High transmittance diffuser suitable for installation in false ceiling . The Luminaire shall have following specifications as System Efficacy ≥ 100 lm/W, CRI ≥ 80, Operating Voltage Range 140V - 270V, Colour Temperature Range : 5700K - 6500K, Complete system power rating not more than 18 Watts with High performance Constant Current Electronic Driver suitable for operation on	5	Each	1912.00	9560.00

	230V, 50Hz AC Supply including connection with 1.5 Sq.mm. FRLS PVC insulated copper wire single core cable etc as required.				
25	Supplying, Installation, Testing and Commissioning of 5 Watt 1 ft LED Batten/ Mirror Light made up of Polycarbonate Housing with integrated electronic driver suitable for surface mounting. The Luminaire shall have following specifications as System Efficacy ≥ 100 lm/W, CRI ≥ 80, THD < 20%, Colour Temperature Range : 5700K - 6500K suitable for operation on 230V, 50Hz AC Supply including connections etc as required.	2	Each	527.00	1054.00
26	SITC of PIR & Ultrasound based occupancy sensor of ceiling mounted type having high performance, programmable type suitable for connected load upto 8.5 A,IP 40, for mounting height upto 2.8 meter and detection range of 9 meter , 360° coverage area along with necessary fixing arrangement i/c connections, configuration/ programming complete as required.	7	Each	21032.00	147224.00
27	Supply, Installation, Testing and Commissioning of 400 mm sweep, Wall fan with Brush Less Direct Current (BLDC) Motor, 3 nos. blades, made out of ABS Plastic Body, copper winding, Service Value (CM/M/W) minimum 1.90, Air delivery minimum 65 Cum/Min, 1350 RPM (tolerance as per IS : 374-2019), Separate Copper motor for oscillation function, remote for speed control and all accessories suitable for 230 V, 50 Hz, single phase AC Supply, earthing connection, testing & commissioning etc as required.	17	Each	4941.00	83997.00

28	Supply, Installation, Testing and Commissioning of 250 mm sweep, Fresh Air/ Exhaust fan with Brush Less Direct Current (BLDC) Motor, made out of ABS Plastic Body and louvers, Double ball bearing for less noise, copper winding, Air delivery minimum 1150 CMH, 1300 RPM, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. including making the suitable size hole, making good the damage and connection, testing & commissioning etc complete as required.	2	each	3778.00	7556.00
	Package: Providing EPBAX, Networking				
29	Supply, installation, testing and Commissioning of IP PBX with 2 Digital 2 Trunk 18 Analog Extension with Feature , Expandable upto 48 Ports, 100 IP Users , Facilitate Seamless Communication, Effectively Call Costs And Allocates Budget Enabling Control,Call Back on Trunk ,Auto Attendant,COSEC Integration,Dynamic DNS,Detailed records of call history,Multilingual IVR	1	each	100318.00	100318.00
30	Supply, installation, testing & commissioning of 16 key DSS digital speaker phone including called id display, redial memory, Electronic Volume Control, 4 programmable keys ,Polyphonic Ringtone , message wait & Ringer Lamp,3.5 mm headset jack,conference key, Navigation key for call details, phone book and wall mountable etc as required.	1	each	8827.00	8827.00
31	Supply, installation, Testing & Commissioning of speaker telephone Instrument including caller id display, redial memory, Electronic Volume Control, Time Flashed, 2 step ringer selection, switchable pulse / tone settings and wall mountable etc as required.	24	each	2112.00	50688.00

32	Supplying and fixing of suitable size sheet steel customised krone boxes for following pair krone connectors on the existing wall including connector modules, mounting accessories including termination of cables etc complete as required				
32.1	b) 30 Pair	1	each	4165.00	4165.00
33	Supply, Installation, Testing and Commissioning of L2 24 port smart managed switch of 10/100/1000 mbps speed T Ports of auto sensing type ethernet ports and 2 X 1 G SFP+ port,suitable for existing network i/c connections and terminations and integrating the same with existing network etc as required.	1	each	27575.00	27575.00
34	Supply, installation, testing and commissioning of 24 port fully loaded patch panel suitable for mounting on racks including installation on existing rack complete etc as reqd.	1	each	4701.00	4701.00
34.1	Supplying and fixing of Cat 6 patch cords of 1 metre length.	24	each	223.00	5352.00
35	Supplying and fixing of following size powder coated wall/floor mounted type Equipment rack with top and bottom cable entry including power manager, cooling fans, shelves and standard accessories complete etc as reqd.				
35.1	a) 4 U rack(for Network switch))	1	each	8189.00	8189.00
	SUB HEAD - II : EMERGENCY LIGHT & ILLUMINATED SIGNAGES				
36	Providing and installing in position the following types of floor number signboards made out of 3 mm thick "Acrylic" sheet with computer cut with uv laser print , etc. complete with fastners as required 1.1) Signage's for floor numbers to be printed on both sides to be hanged from ceiling of size 15" x 5".	2	each	1124.00	2248.00

37	Supply, Installation, Testing & Commissioning of 3Watt LED based double side signage exit board, black painted Extruded aluminium housing, laser engraved signage matter on double acrylic sheet fixed on one side, in double sided version black paper is inserted.mounting strings provided for pendent mounting ,signage with double sided legend as "EXIT with direction of stairs" superscript in Green / Red LED's mounted inside the housing. within built driver prewired with battery backup integrated unit (back-up for 2 hrs). Suitable for operation on 240V, 50Hz, 1-phase AC	6	each	7746.00	46476.00
				Total Rs.	**1442342.00**

N.I.T. No: 40/EE/C1D/CPWD/CHENNAI/2024-25					
Name of work: Construction of Additional floor (Above Conference Hall) with light weight structure at AVNL office Building, Avadi, Chennai.					
SCHEDULE OF QUANTITY					
Name of the Contractor					
S.No.	**Name of component**	**Estimated cost (Rs)**	**Percentage above or below the estimated cost**	**% in Figures**	**Total Cost (Rs)**
1	2	3	4	5	6
1.	CIVIL WORKS	Rs. 70,62,033/-			Rs. 70,62,033/-
2	ELECTRICAL WORKS	Rs. 14,42,342/-			Rs. 14,42,342/-
	TOTAL	**Rs. 85,04,375/-**			**Rs. 85,04,375/-**

1. The Column Nos 4&5 are mandatory to be filled by the bidders/ tenderers. If all these columns are left blank, the tender become invalid.

2. The amount in figures in column No.6 shall appear automatically corresponding to the percentage quoted in column No.4 & 5.

3. The tenderer isneed to quote the percentage only above or below or at par with the estimated cost to cover all the rates of item covered under the respective packages / schedule of quantities.

4. The percentage shall be written in 2 (two) places of decimal.

5. If the percentage selection in column No 4 is " At Par", by default the percentage will be considered as "Zero" only. In other words, if "At par" is selected in column No.4, then no need to fill column No.5

6. The rate for the payment of each item will be - measured quantity x estimated rate of that particular item x tender percentage corresponding package/schedule of quantities respectively.

Signature of contractor **Executive Engineer, C1D**

Annexure-I

As on 02.12.2020

List of Approved Civil materials for Chennai Zone, CPWD, Chennai
(Includes the list approved by SDG(PRC) and ADG(RC), if any , as on 02.12.2020)

NOTE: Not withstanding to the approval given in the list, the field staff are requested to observe the following conditions

1	Equivalent material and finishes of any other make may be used on written request of the contractor, in case of unavoidable circumstances and also if it is established that minimum three brands are not specified below or three brands out of all brands specified below are not available in the market, after written approval of the alternate brand by the NIT approving authority. This substitution shall be subject to cost adjustment in case the substituting brand is available at cheaper rates in market than those mentioned herein above. There shall be no cost adjustment if the subtituting brand is costlier in market than those mentioned herein.
2	In addition, the brands approved as hereunder , should have valid and active BIS certificate as on the date of supply for the work.
3	Material shall conform to Make in India policy of Government of India as on the date of supply for the work.
4	Other brands not included in the list below but having BIS certificate on the date of supply for the work shall only be allowed against note (1) above.
5	In Case of non availability of BIS codes for any of the materials incorporated above, the Engineer-in -Charge shall send the materials for testing as per the relevent ASTM or EN codes and satisfy himself before using the same in work.

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.2			
EARTH WORK			
1	Chloropyriphos	DURSBANTCT	DE-NOCIL Ltd.
		Premise Agenda	Bayer Ltd
		PIRAMID	AMVAC AGRI RASAYAN Pvt. Ltd
		NOBAN	Chemtts Wets& Flows Pvt. Ltd.
		HILBAN	Hidustan Insecticides Ltd
		Sarups Pest Control	Sarups Pest Control Ltd.

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.3			
MORTAR			
1	Ordinary Portland Cement (43 grade) / Portland Pozzolona Cement (PPC)	ACC	ACC cements Ltd
		Ultra Tech	Ultra Tech Cement Ltd.
		Coromandal	India Cements Ltd.
		Birla	Birla Corportion Ltd.
		Chettinadu	Chettinadu Cements Corportion Ltd.
		Bharathi	Bharathi Cement Corportion Ltd.
		Dalmia	Dalmia Cement Bharat Ltd.
		Zuari	Zuari Cement Limited.
		JSW	JSW Cement Ltd.,
		Japee Cement	Jaypee Cement Ltd
		Maha Cement	Myhome Industries Pvt. Ltd
		J.K Cement	J.K Cement Pvt. Ltd
		Ambuja Cement	Ambuja Cements Ltd
		Penna Cement	Penna Cement Industries Ltd.
		Konark Cement	Konark Cement
		Centuary Cement	Birla Gold Cement
		Shree Cement	Shree Cement
		Ramco Cement	Ramco Cement Ltd
		Sagar Cement	Sagar Cements Ltd
		Emami Cement	Emami Cements Ltd
SUB HEAD No.4			
CONCRETE WORK			
1	Damp Proof course materials	MAPEI	MAPEI Construction Products India Pvt.
		Impermo	Snowcem Paints
		Duraseal	Apurva India Pvt. Ltd.
		ACCO Proof	ACC Cement Ltd.
		Dr. Fixit	Pidilite Industries
		Ferrous crete	Ferrous Crete (India) Pvt. Ltd.
		Fosroc	Fosroc Chemicals India Pvt. Ltd.
		CICO	CICO Industries
		SIKA	Sika India Pvt. Ltd
		PIDILITE	Pidilite Industries Ltd.
		BASF	BASF India Ltd
		MYK	MYK LATICRETE India Pvt. Ltd
		Asian Paints smartcare dampproof	Asian Paints Ltd
		WeatherCoat Roofgaurd	Berger Paints
		Polytancreteiwl	Sunanda Speciality Coatings Pvt.Ltd
		Wallshield 2K	Berger Paints
		KCPL	Kunal Conchem Pvt. Ltd.,

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.5			
REINFORCED CONCRETE WORK			
1	TMT bars Fe-500D	SAIL	Steel Authority of India Ltd.
		TISCO	TATA STEEL Ltd
		VIZAG	Rastriya Ispat Nigam Ltd.
		JSW	JSW Steel Ltd
		Shyam Steel	Shyam Steel Industries ltd.
2	Plasticiser & Super Plasticiser	Contrament, Power flow	MC Bauchemie (India) Pvt. Ltd
		Sunanda Chemicals	Sunanda Chemicals Ltd.
		Plastiment, Sikament	Sika Inida Pvt Ltd.,
		Conplast SP430	FOSROC India
		Chryso-HP / Delta / Optima	Chryso India Pvt. Ltd.,
		MYK Schomburg	MYK Arments range of products
		BASF	BASF India Ltd
		CICO	CICO Industries
		Smart Care Techno Plast/Smart Care Maximo Plast	Asian Paints Ltd
		Endura	H.R. Jhonsons
		KCPL	Kunal Conchem Pvt. Ltd.,
3	Expansion Joint Bitumen board	Dura board HD100	Supreme Industries
		DURAFILL	Supreme Industries
		STP	Shalimar Tar Products
4	Post tensioning System	CRUX	Crux Processing systems Pvt Ltd.,
		VSL	VSL India Pvt Ltd.
		Ultracon	Ultracon Structural Systems Pvt Ltd
		BBR	BBR (India) Pvt . Ltd
5	PT Strands	DP wires	D.P Wires Ltd.
		TATA wiron	TATA Steel Ltd.,
		Usha Martin	Usha Martin Ltd
6	Adhesives	Dunlop	India Tyre & Rubber Co (India) Ltd.
		Vamorganic	Vamorganic Ltd.,
		Sika	Sika India Pvt. Ltd
		Fevicol	Pidilite Industries
		Proofex of adhesive	Fosroc India Ltd
		CICO	CICO Industries
		Kerabond Plus	MAPEI Construction Products India P Ltd.
		Asian Paints	Asian Paints

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
7	Grout	Ardex	Ardex Endura Adhesive India Pvt. Ltd
		LATA POXY	MYK LATICRETE India Pvt. Ltd
		Fugabella, Porcelana	Kerakoll India Pvt. Ltd
		Dr. Fixit	Pidilite Industries
		Weber	Saint-Gobin India Pvt. Ltd
		Ferrous crete	Ferrous Crete (India) Pvt. Ltd.
		BASF	BASF India Ltd
		FosrocGP2	Fosroc India Ltd
		MYK Schomburg	MYK Arments range of products
		Fugabella, Porcelana	Kerakoll India Pvt. Ltd
		Kerapoxy	MAPEI Construction Products India P Ltd.
		KCPL	Kunal Conchem Pvt. Ltd.,
		Asian paints	Smart Care SC GP Grout Grey
		Pidilite	Pidilite Industries Ltd.
		Care	Care
		Mapefill GPIN	MAPEI Construction Products India P Ltd.
		SIKA	SIKA India
		Smart Care SC GP Grout Grey	Asian Paints
		Homeshield Supergrout	Berger Paints
8	Ready Mix Concreate	Ultra Tech	Ultra Tech Concrete
		ACC	ACC Ltd
		RMC (India)	RMC (India) Pvt. Ltd.
		Lafarge	Lafarge India Pvt. Ltd
9	Mechanical coupler for Reinforcement	Dextra	Dextra India Pvt., Ltd.
		Sanfield	Sanfield India Ltd
SUB HEAD No.6			
BRICK WORK			
1	AAC Blocks	Xtralite	UITRATECH Cement Ltd
		Areocon	HIL
		Siporex	SIPOREX
		Nucon	Green way building materials India Pvt. Ltd
		Renacon	Renaatus Procon Pvt. Ltd.
		Birla Aerocon	HIL Ltd (CK Birla Group)
		NCL	NCL VEKA Ltd.
2	Adhesive for AAC Block /Tiles	Ultrtech	Ultratech cements Ltd.
		Ardex Endura/Gold Star	Ardex Endura
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Smart Care Tile Adhesive	Asian Paints
		Tile Adhesive Plus	Berger Paints

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.9			
WOOD & PVC WORK			
1	Wooden Flush door shutters	Jayna ply	Jain Wood Industries
		Raavella door	Raavella Industrials (P) Ltd
		Kailash	Kailash Hi tech Timber Industries India Pvt. Ltd
		Shakthi	Shree Shakthi Modern Flush doors
		Greenlam	Greenlam Industries
		Mayur	Mayur Plywood
		MP Ply wood products	MP Wood products
		Archidply	Archidply Industries Ltd
		DEC	D.E.C Infrastructure & Project (India) Private Limited.
		Greenpanel	Greenpanel Industries Ltd.
		Jain Doors	Jain Doors Pvt. Ltd.
		Indian Timber Products	Indian Timber Products
		Kitply	Kitply Industries Ltd.
		Duro Flushdoors	Duro Ply Industries Ltd.
		Kenwood	Kenwood Ply & Board
		Century	Century Flush Doors
2	Water Proof Plywood, Commercial ply, Fire retardant ply and Block boards, BWR Marine Ply, BWR/ MR Ply.	Jayna ply	Jain Wood Industries
		Greenpanel	Greenpanel Industries Ltd.
		Archidply	Archidply Industries Ltd
		Kitply	Kitply Industries Ltd.
		Duroply	Duro ply Industries Ltd.,
		Century ply	Century Flush Doors
		Wuudply	M/s Prime Veneers Ltd
3	Laminates	Green Lam	Green lam Industries Ltd.
		Centuary	Centuray laminates
		Merino	Merino laminates
		Royal touche	Royal touche laminates
		Kitmica	Kitply Industries Ltd.
		Formica	Formica Laminates (India) Pvt Ltd.
		Decolam	Decolam India Pvt Ltd.
		Archidply	Archidply Industries Ltd
		Sonear	Sonear Laminates
		Sunmica	Sunmica Industries
		Vidya Ply	Vidya Ply & Board Pvt.Ltd.

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
4	Prelaminted particle board MDF (Exterior Grade)	Novapan	GVK Novapan Industries Pvt Ltd.,
		Merino	Marino laminates
		Kitlam	Kit Ply Industires Ltd,
		Ecoboard	Ecoboard Industries Ltd.
		Associate	Associate Décor Limited
		Archid ply	Archid ply industries Ltd.
		TESA	Balaji Action Buildwell
		Centuary	Centuary MDF
		Green lam	Green lam industries Ltd.
		Greenpanel	Greenpanel Industries Ltd.
5	Veenering	Greenpanel	Greenpanel Industries Ltd.
		Centuary	Centuary MDF
6	FRP Door Frames & Shutter	Jain Doors	Jain Doors Pvt. Ltd,
		Signum	Signum Fire Protection India Pvt. Ltd
		Meena Fibre Glass,	Meena Fibre Glass
		Duroplast	Duroplast extrusion Pvt Ltd
		Cactus	Cactus
		Polyline.	Poluline
7	1. Factory Made Panel door shutters 2. Factory Made Wire-Mesh Door Shutters 3.LVL Door shutters	Jain Doors	Jain Doors Pvt. Ltd,
8	High Density (HDF) Prelaminated board	Pergo	Red Floor India
		Armstrong	Armstrong world Industries
		Green ply	Green ply Industries Ltd.,
9	Gypsum board	Gyproc Saint Gobain	Saint Gobain Gyprock India Ltd.,
		Lafarge	Lafarge Gypsum India Pvt. Ltd
		USG Boral Board	USG Board India (P) Ltd.
		Armstrong	Armstrong wold Industries

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
10	Glass door hardware	Dorma	Dorma India Pvt Ltd
		Kich	Kich Architectural Products Ltd.
		Classic	Classic hardware
		Hafele	Hafele India Pvt. Ltd
		Ozone	Ozone Hardware.
		Geze	Geze GMBH
		Define	Define Overseas Pvt. Ltd.
		Squash	Squash glass doors
		Dorset	Dorset Industries Pvt Ltd
		Garg	D P Garg Pvt Ltd
11	Hydraulic door closers/ Floor springs	Godrej	Godrej locking solution & systems
		Hardwyn	Hardwyn hardware
		Dorma	Dorma India Pvt Ltd.
		Everite	Everite agencies
		MAGNUM KIT	Mukund Overseas
		Dorset	Dorset Industries Pvt Ltd
		Geze	GezeGMBH
		Garg	D P Garg Pvt Ltd
		Ingersolrand	Ingersolrand India Pvt Ltd
		OZONE	Ozone Hardware.
12	Locks & Latches	Dorset	Dorset Industries Pvt Ltd
		Godrej	Godrej locking solutions & systems
		Harrison	Harrison locks
		Plaza	Bharat lock House
		Yale	ASSA ABLOY India (P) Ltd.
		Hitech	Globe Locks India
		Hafele	Hafele India Pvt. Ltd
		Link	Link Locks
		Geze	GezeGMBH
		Garg	D.P. Garg Pvt Ltd.,
13	Metalic / Steel Fire Door , frame and shutters	Shakthi Hormann	Shakthi Hormann Pvt Ltd,
		Promot	Promot fire & Insulation (P) Ltd.
		Godrej	Godrej Security solutions
		Signum Fire	Signum Fire Protection India Pvt. Ltd
		MPP Schodders	MPP Technology Pvt.Ltd.
		NAVAIR	NAVAIR International Pvt Ltd
		Sukri	Sukri Fire doors Pvt.Ltd
		Kenwood	Kenwood Ply & Board
14	Fire Smoke Seal	Hilti	Hilti India Pvt Ltd.
		Raven	Raven Global
		Promat	Promat fire & Insulation (P) Ltd.
		Atroflame	Atroflame Ltd.

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
15	Non Metalic Floor Surface Hardners	Ironite	Ironite
		Hardonite,	Hardonite
		FOSROC	Fosroc India
		SIKA	SIKa India
		BASF	BASF India Ltd.,
		CICO,	CICO Technologies Ltd.,
		Pidilite	Pidilite Industries Ltd,
16	Fire rated hardware	Dorma	Dorma India Pvt. Ltd
		Ingersolrand	Ingersolrand (India) Ltd,
		Geze	Geze GMbH
		Dorset	Dorset Industries Pvt Ltd
		Garg	D.P. Garg Pvt Ltd.,
		Backers FS	Backers FS
17	Non Metalic Fire door	NAVAIR	NAVAIR International Pvt Ltd
		Promot	Promot fire & Insulation (P) Ltd.
		Godrej	Godrej Security solutions
		Kenwood	Kenwood Ply & Board
18	Stainless steel screws	Kundan	Kundan Industries Ltd.
		Pooja	Pooja Steel Corportion
		Atul	Atul fasteners Ltd.
		Alloy	Alloy ltd
		GKW	GKW Limited
		Nettlefold	Nettlefold screws
19	Butt Hinges openable window shutters	Hafela	Hafele India Pvt. Ltd
		Alu Alpha	Alu Alpha India
		Earlt Bihari	Earlt Bihari India Pvt .Ltd.
		Dorma	Dormakaba India Pvt. Ltd
		Garg	D.P. Garg Pvt Ltd.,
		Dorset	Dorset Industries Pvt Ltd
20	Mild Steel Butt Hinges / Piano hinges	Jolly	Jolly Engineering works
		Garg	D.P Garg & Company
		Amit	Lovely metal industries Pvt Ltd.
		Jyoti	Jyoti Architectural Pvt Ltd.
		Supreme	Supreme
		Saswat	Saswat
		Deepak	Deepak
		Swift	Swift screws
21	Stainless steel Butt hinges	Prayag	Prayag Polymers (P) Ltd
		Ozone	Ozone Hardware.
		Dorma	Dormakaba India Pvt Ltd
		Geze	GEZEGMBH
22	Concealed tower bolt	Dorma	Dorma India Pvt Ltd
		Ingersolrand	Ingersolrand (India) Ltd,
		Alu Alpha	Alu Alpha India
		Garg	D.P. Garg Pvt Ltd.,
		DORSET	Dorset Industries Pvt Ltd

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
23	UPVC doors, frames and window profiles	Fenesta	Fenasta DCM Shriman
		QUTE	Qute extrusion Pvt. Ltd
		LG	LG Housys India
		Kommerling	Profine India Window technology Pvt Ltd.
		Duroplast	Duroplast extrusion Pvt Ltd
		Polyline	Polyline extrusion Pvt Ltd
		Aparna Venstar	Aparna Enterprises Ltd.
		AMD	AMD overseas Impex (India) Pvt. LTD.
		Simta Astrix	Simta clear coats pvt.Ltd
		Rajshri	Rajshri Productions Pvt. Ltd.
		NCL VEKA	NCL VEKA Ltd.
		Prominance	Prominance Window Systems
		Marcolini	Mathura Polypack(P) Ltd.
		Akshara Polymerss	Akshara Polymerss
		Encraft	Encraft India Pvt.Ltd.
		Rehau	Rehau Unlimited Polymer Solutions
		Aluplast	Alu Alpha India
		Shirke	B.G Shirke Construction Technology Pvt Ltd.
24	Stainless friction hinges	Hetich	Hetich India Pvt .Ltd.
		Haffle	Haffle India Pvt .Ltd.
		Securistyle	Securistyle India Pvt .Ltd.
		Earl Bihari	Earl Bihari India Pvt .Ltd.
		ROTO	ROTO Frank Asia
		EBCO	EBCO
25	Float Glass	Saint Gobain,	Saint Gobain India Pvt .Ltd. ,
		Asahi	Asahi India glass .Ltd.
		Pilkinton	Pilkinton India Pvt .Ltd.
		Modiguard	Gujarat Guardian Ltd.
26	Reflective glass	Saint Gobain,	Saint Gobain India Pvt .Ltd. ,
		Asahi	Asahi India glass .Ltd.
		Pilkinton	Pilkinton India
		Glaverbel	Glaverbel India
		Modifloat	Gujarat Guardian Ltd.
27	Tempered reflective/clear glass	Saint Gobain,	Saint Gobain India Pvt .Ltd.
		FUSO	FUSO Glass India Pvt .Ltd.
		Gurind	Gurind India
		Impact safety	Impact safety glass workes Pvt Ltd
		Asahi	Asahi India glass Ltd,
		Modiguard	Gujarat Guardian Ltd.

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
28	Fire rated glass	Contra flam/ Pyroswiss of Sanit Gobain	Saint Gobain India Pvt Ltd.
		Pyran of Schott	Schott glass India Pvt .Ltd.
		Pilkinton	Pilkinton India
		Promat	Promat fire & Insulation (P) Ltd.
29	Anchor/ SS Stone Dash fasteners	Hilti	Hilti India Pvt .Ltd.
		Fischer	Fischer India
		Anchor	Anchor Ltd
		Kundan	Kundan Industires Ltd.
		Nutech	Nutech Construction Chemicals
		Canon	Cannon
		Wurth	Wuerth India Pvt. Ltd
		Trixel	Axel India Pvt.Ltd
		Helfen	Helfen Anchoring System
		BOSCH	BOSCH Ltd
30	Partions	Birla Aerocon	HIL Ltd (CK Birla Group)
SUB HEAD: 10			
STEEL WORK			
1	Structural Steel	SAIL	SAIL
		TISCO	TATA STEEL
		VIZAG	RINL
		JSW	JSW
		Apollo	APL Apollo
2	M.S.Pipes / Tubes and Hollow sections.	SAIL	SAIL
		TISCO	TATA STEEL
		METPRO	MKK Matel Section Pvt. Ltd.
		R.K. Steel	R.K. Steel Manufacturing Compnay Pvt. Ltd.
		Apollo	APL Apollo
		Kalinga	Kalinga Tubes
		JINDAL	JSW
		Nezone	Nezone Tubes Limited
3	Stainless steel pipes / sections	Salem	SAIL
		Jindal	JSW
		SAIL	SAIL
		KINGSTON	KINGSTON Brass
		Connect	Connect ltd.
		Ark	Ark Product Pvt. Ltd
4	Stainless steel Bolts, washers, nuts	Kundan	Kundan Industires Ltd
		Pooja	Pooja Steel Corrporation
		Atul	Atul fasterners Ltd
		Hilti	Hilti India Pvt. Ltd
5	Stainless steel pressure plate screws	Kundan	Kundan Industires Ltd
		Pooja	Pooja steel corporation
		Atul	Atul fasterners Ltd

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
6	Welding rods	Advani	Advani oerlikon Ltd.
		ESAB	ESAB India Pvt. Ltd
7	Metal Deck Sheet	TATA	TATA STEEL
		SAIL	SAIL
8	Shear Stud/ Connector	KOCO	KOSTER & Co.
9	Steel Windows/Pressed Steel Frames	Madhu Industries,	Madhu Industries, San Harvic, NCL
		San Harvic,	San Harvic
		NCL	NCL Industries
10	MS Precision Tubes (cold seamless pipes)	R.K. Steel	R.K. Steel Manufacturing Compnay Pvt. Ltd.,
SUB HEAD No.11			
FLOORING			
1	Vitrified tiles & Bath room anti-skid tiles	Asian (AGL)	Asian Granite India Ltd
		NITCO	NITCO Ltd
		RAK	RAK Ceramic India Pvt Ltd.
		Restile	Restile Ceramic Ltd.
		Kajaria	Kajaria Ceramic Ltd
		Somany	Somany Ceramic Ltd
		Jhonson	Prism Jhonson Ltd
		Orient Bell	Orient Bell Ltd
		Varmora Granito	Varmora Granito Granite Pvt. Ltd
		Oasis	Oasis Vitrified Pvt. Ltd.
		Naveen	Murudeshwar Ceramics Ltd.,
		Anuj	Aravid Ceramic Industries Ltd
		Asttra	Asttra Tile and Pavers Company.
		Viero	Aparna Tiles
		Aparna Vitero	Aparna Enterprises Ltd.
2	Glazed Wall Ceramic Tiles	Asian (AGL)	Asian Granite India Ltd
		NITCO	NITCO Ltd
		RAK	RAK Ceramic India Pvt Ltd.
		Kajaria	Kajaria Ceramic Ltd
		Somany	Somany Ceramic Ltd
		Jhonson	Prism Jhonson Ltd
		Orient Bell	Orient Bell Ltd
		Varmora Granito	Varmora Granito Granite Pvt. Ltd
		Oasis	Oasis Vitrified Pvt. Ltd.
		Naveen	Murudeshwar Ceramics Ltd.,
		Anuj	Aravid Ceramic Industries,Ltd

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
3	Synthetic Sports Track flooring	Armstrong	Armstrong flooring
		LG	LG Hausys India
		Wondorfloor	RMG Polyvinyl India Ltd.
4	Linoleum sports flooring	Armstrong	Armstrong flooring India Pvt Ltd.
		Forbo	Forbo flooring India Pvt. Ltd.
		Gerflor	Gerflor flooring
5	False flooring	Hewetson	Hewetson India
		Unifloor	Unifloor India Ltd
		Unitile	Unitile office systems Pvt. Ltd
		Kebao	Inner Space (Distributors)
		Access floor system	Access Floor System
		PINNACLE	PINNACLE
6	Engineered wooden flooring	Armstrong	Armstrong flooring
		Werner	Durafloor werner GmbH
		Pergo	Redfloor India
		Mikasa Real wood floors	Green Lam Industries
		New wood	New Wood india ltd
7	Cement concrete parking tiles	NITCO	NITCO Ltd
		Poddar	Poddar Udyog
		Eurocon	Eurocon tiles India
		Dazzle	Dazzle Designer tiles Pvt Ltd
		Ultra	Ultra tile private Ltd.
		Anuj	Aravid Ceramic Industries Limited.
		Asttra	Asttra Tile and Pavers Company.
		NTC	NTC Parking tiles
		Hindustan tiles	Hindustan tiles, Ranchi Pune
8	Synthetic Carpet tiles	TOLI	TOLI corporation
		Hollitex	Hollitex carper tiles
		Standard Carpets	Standard Carpets
9	Vitrified paving tiles	PAVIT	PAVIT ceramics Pvt Ltd.
10	Glass mosaic tiles	Italia	Tile Italia mosaics Pvt Ltd.
		Palladio	Palladio Mosaics
		Bisazza	Bisazza Italy
		Coral	Coral tiles
		Mridul	Mridul tiles
		Birla White	Birla Corportion Ltd.
		JK White	JK Cement ltd.
		PAVIT (Eco Tile)	PAVIT Ceramics Pvt Ltd.

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
11	White Cement	ACC	ACC Cements Ltd
		Birla	Birla Corportion Ltd.
		JK White	JK Cement ltd.
12	PVC Flooring	LG Hausys	LG Hausys
		Ger flor	Gerflor flooring
		Armstrong	Armstrong World Industries
13	Grass Paver	Unistone	Unistone
		Ultra	Ultra Ltd.
SUB HEAD No.12			
ROOFING			
1	Roof Tiles (for Temperature reduction)	PAVIT (Eco Tile)	PAVIT Ceramics Pvt Ltd.
		Anuj	Aravid Ceramic Industries,Ltd
2	Thermal Insulation treatment	Elastospray	BASF
		Pidilite	Pidilite industries
		Rock India Pvt.LTd	Rock India Pvt.Ltd
		Weathercoat Kool & Seal	Berger Paints
3	Acoustic Insulation	Twingerinsul	U.P.Twiga fiber glass Ltd
		Lloyd Insulation	Lloyd Insulation (India) Ltd
		Saint Gobain Gyproc	Saint Gobain Gyproc India
		Himalyan Acoustics	Himalyan Acoustics
		Knauf	Knauf Gypsum India Pvt. Ltd.
		Anutone	Anutone Acoustics Ltd.
4	UPVC Pipes and fittings (Rain water pipes)	Supreme	Superme Industries Ltd.
		Prince	Prince pipes and fittings Ltd.
		Finolex	Finolex Industries Ltd.
		Prepoly	Premier PVC Industry
		Ajay	Ajay Industrial Corporation
		Sharon	Sharon Extrusions
		Vectus	Vectus
		Prayag	Prayag Polimers (P) Ltd.
		Astral	Astral polytechnik Ltd.
		Ashirwad	Ashirwad PVC Pipes
		Flow Guard	Flow Guard
		Truflow	HSIL Ltd of Hindware
5	Sandwich PUF panelled roofing sheets	Lloyd Insulation	Lloyd Insulation (India) Ltd
		JINDAL MECTEC/ JINDAL	Mectec Pvt. Ltd
		Danpalon	Danapal Light architecture
		GE Plastic	GE Silicones
		LEXAN	LEXAN Ltd
6	Polycorbanate Roof Sheets	Danpalon	Danapal Light architecture
		Alcox	Hindeggan Alcox Ltd.
		Polygal	Polygal India Pvt Ltd.
		MG Polyplast	MG Polyplas
		GE Lexon	GE Silicones

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
7	False ceilings	Aerolite	Andhra Polimers Pvt. Ltd.
		Anutone	Anutone Accoustics Ltd.
		Armstrong	Armstrong World Industries
		Ramco	Ramco Industries Ltd.
		Knauf	Knauf Gypsum India Pvt. Ltd.
		Himalyan Acoustics	Himalyan Acoustics
		Saint Gobain Gyproc	Saint Gobain Gyproc India
		Gridsquare	Gridsquare Ceilings
		USG Boral	USG Boral
		Hunter Dougals	Hunter Dougals
8	False Ceiling Members (Perimeter, Ceiling section, intermediates, angles etc.,)	Armstrong	Armstrong World Industries
		Gypframe steel	British Gypsum
		Knauf	Knauf Gypsum India Pvt. Ltd.
		Saint Gobain	Saint Gobain Gyproc
		Aerolite	Andhra Polymers Pvt. Ltd./Aerolite Industries Pvt. Ltd.
		Gridsquare	Gridsquare Ceilings
		Hunter Dougals	Hunter Dougals
9	Non Asbestos fiber sheet (Cement Roofing Sheets)	Charminar Fortune	HIL Ltd (CK Birla Group)
10	Galvolume sheet for roofing, cladding, Sandwitch panel	Llyod Metal Craft	Llyod Insulations.
		Tata Blue Scope	Tata Bluescope
		Bhushan	Bhushan steel
		JSW	JSW
		Essar	Essar group
SUB HEAD No.13 & 14			
FINISHING			
1	Synthetic enamel Paint	Premium gloss enamel	Asian paint Ltd
		Dulex	ICI dulex Ltd
		Nerolac	Nerolac Paints Ltd
		Berger	Berger Paints
		Nippon	Nippon Paint India Ltd.
		Surfa Coats	Surfacoats Pvt. Ltd.
2	Pink primer	Wood primer	Asian paint
		Dulex	ICI dulex
		Nerolac	Nerolac Kansia Nerolac Paints Ltd.,
		Berger	Berger Paints
		Nippon	Nippon

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
3	Red Oxide Zinc Chromate primer	High performance yellow metal primer	Asian paint
		Dulex	ICI dulex
		Nerolac	Nerolac
		Berger	Berger Paints
		Nippon	Nippon
4	Oil Bound Distemper	Tractor Aqalock	Asian paint
		Dulex	ICI dulex
		Nerolac	Nerolac
		Berger	Berger Paints
		Nippon	Nippon
		mG Polyplast	Nerolac
5	Acrylic emulsion	Tractor emulsion (premium)	Asian paint
		Dulex	ICI dulex
		Nerolac	Nerolac
		Berger	Berger Paints
		Nippon	Nippon
		Surfa Coats	Surfacoats Pvt. Ltd.
6	Water Proof Cement paint	Asian exterial wall primer	Asian paint
		Berger	Berger Paints
		Surfa	Surfacoats (India) Pvt. Ltd.
		Cem Colour	Snowcem Paints
		ICI DULUX	ICI DULUX
7	Acrylic smooth exterior paint	ACE / Apex	Asian paint
		Dulex	ICI dulex
		Nerolac	Nerolac
		Berger	Berger
		Nippon	Nippon
		Surfa Coats	Surfa Coats Pvt. Ltd
8	Premium Acrylic smooth exterior paint with silicon additives	ULTIMA	Asian paint
		Dulex	ICI dulex
		Nerolac	Nerolac
		Berger	Berger
		Nippon	Nippon
		Surfex Rain Shield	Surfacoats
9	Cement based wall putty	J.K.wall putty	J.K. Cement Ltd.
		Birla wall case	Birla Cements Ltd.,
		Asian paints	Asian paints Ltd
		Altek	NCL Alltek & seccold Ltd.
		Birla Hil	HIL Ltd (CK Birla Group)
		Berger	Berger
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

SL.No	Material Description	Material	
		Brand	Make
10	Acrylic texured plaster	Apex Duracast	Asian paints
		Spectrum paints	Spectrum paints Ltd.
		Heritage	Heritage Rajkamal Group
		Asian paints	Asian Paints
		Neroloc	Neroloc
11	Ready mix cement plaster	Wall plast	Wall plast products Pvt Ltd.
		Readi Plast	Ultratech cements Ltd.
		Ramco super plaster melamine	Ramco cements Ltd.
		Gyproc Plasters	Saint Gobain Gyproc India
		Ultra tech	Ultra tech Cement Ltd.
		Knauf	Knauf Gypsum India Pvt. Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
12	Melamine Polish	Asian paints	Asian paints
		Polycure	Polycure malaysia
		Melamine Gold wudfin	Pidilite industries
13	Fire retardant paint	Jotun	Jotun paints
		Hilti	Hilti India
		Akzonobel	Dulex Akzonobel Paints
		Asian Paints	Asian Paints
		STPL Ltd.	STPL Ltd.
14	Anticorrosive bitumastic paint	Berger	Berger paints India Ltd.
		Shalimar	Shalimar paints India Ltd.
		IS 158 bituminous black	Asian Paints
15	Cement Primer	Asian paints	Asian paints
		JK Primaxx	JK Cement Ltd.
		Berger	Berger paints India Ltd.
16	Epoxy paint	Asian epoxy	Asian paints
		Berger	Berger paints India Ltd.
		Shalimar	Shalimar paints
		STP Ltd.	Shalimar Tar Products
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Mapecoat L24	MAPEI Construction Products India P Ltd.
		Nerolac	Nerolac
		Sun Epoxy Paint	Sunanda Speciality Coatings Pvt,Ltd
17	Epoxy coating	BASF	BASF India Ltd.
		Fosroc	Fosroc India
		Laticrete	MYK Laticrete India
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Mapecoat DW25	MAPEI Construction Products India P Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Sun Epoxy Paint	Sunanda Speciality Coatings Pvt,Ltd

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
18	Sililcon coating	Dow corning	Dow corning India
		BASF	BASF India Ltd.
		GE	GE Silicones
		Wacker	Wacker silicones.
19	Textured acyrlic Exterior Paint	Asian epoxy	Asian paints
		Berger	Berger paints India Ltd.
		Surfa Coats	Surfa Coats, Pvt. Ltd.,
		Akzonobel	Akzonobel
		Ebco	Ebco
		Neroloc	Nerolac Paints Ltd
20	Ready made/ Gysum Plaster	Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Gyproc Cute 100	Gyproc India
		Ultrtech	Ultratech cements Ltd.
21	PU Enamel Metalic Paints on MS Structure & Epoxy paints (Premium Quality)	SKK	SKK Ltd.
		Akzonobel	Akzonobel
		Asian	Asian Paints
		Berger,	Berger paints India Ltd.
		MRF	MRF Paints
22	PU Coating (UV Resistant Liquid Applied Coating)	Smart Care	Asian Paints
		Pidilite	Pidilite Industries
		BASF	BASF
		Fosroc	Fosroc India
		SIKA	SIKA India
		PURoofkoat	Berger Paints
23	High end Exterior Textures	Allura/Graniza Range	Asian Paints
		SKK Brand	SKK Ltd.
		Berger	Berger paints India Ltd.

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.16			
ROAD WORK			
1	Interlocking Concrete Paver Blocks	Dazzle	Dazzle designer tiles (P) Ltd.
		Ultra	Ultra tiles Pvt Ltd.,
		Shree	Shree Bharat Paver blocks
		Hindustan tiles	Hindustan tiles, Ranchi Pune
		Vyara tiles	VYARA TILES Pvt Ltd., / Surat
		Basant Betons	Basant Betons
		Asttra	Asttra Tile and Pavers Company,
		NITCO (ROCKARD)	NITCO
		BHARAT (NILSAN)	Bharat
		REGENCY	Regency
2	Solar studs/ Median markers	3M	3M Science
		Avery Dennison	Avery Dennison India Pvt Ltd.
		Nikkalite	Nippon carbide Industires (USA)
3	Polycorbonate Convex mirrors, Rubberised road hump	Unique safety solutions	Unique safety solutions
SUB HEAD No.17			
SANITARY INSTALLATIONS			
1	Mirrors	Modi Guard	Gujarat Guardian Ltd.
		Saint Gobain	Saint Gobain Glass India Ltd.,
		AIS mirror	Asahi India glass Ltd,
		Atul	Atul glass Industries Ltd.,
		CERA	CERA Sanitaryware Ltd.,
2	Vitreous Commodes/ Washbasin	Hindware	HSIL Ltd,
		Roca	ROCA Bath room products
		Parryware	ROCA Bath Pvt. Ltd.,
		Kohler	Kohler world wide
		Somany	Somany Ceramic Ltd,
		Golf Ceramics (Prayag)	Golf Ceramics limited
		NEYCER	NEYCER India Ltd.,
		CERA	CERA Sanitaryware Ltd.,
		Rak Ceramics	Rak Ceramics India Pvt. Ltd
		Jaquar	Jaquar Group
		Bathsense	Asian Paints

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
3	Flushing Cistern with EWC/WC	Parryware	ROCA Bath Pvt. Ltd.,
		Shakti	Shakti Enterprises
		Hindware	HSIL Ltd,
		Rak Ceramics	Rak Ceramics India Pvt. Ltd
		CERA	CERA Sanitaryware Ltd.,
		Kohler	Kohler world wide
		Jaquar	Jaquar Group
		Bathsense/TECE	Asianpaints Ltd.
4	Urinals	Parryware	ROCA Bath Pvt. Ltd.,
		Shakti	Shakti Enterprises
		Hindware	HSIL Ltd,
		CERA	CERA Sanitaryware Ltd.,
		Rak Ceramics	Rak Ceramics India Pvt. Ltd
5	SWR / UPVC Pipes & fittings	Supreme	Superne Industires Ltd.
		Astral	Astral polytechnik Ltd.
		Finolex	Finolex Industries Ltd.,
		Ajay	Ajay Industries Ltd.
		Vectus	Vectus Industries Ltd.,
		Prince	Prince Pipes and fittings
		Prayag	Prayag polymers Pvt Ltd.,
		Sentini	Sentini Flopipes, India Private Ltd.
		Birla Hil	HIL Ltd (CK Birla Group)
		Astral	Astral Poly Technik Limited,
		Flowgard	Ashirwad PVC Pipes
		Truflow	HSIL Ltd of Hindware

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
6	Stainless Steel Kitchen sink	Jhonson	Prision Jhonson Ltd.,
		Diamond	Pheonix Appliances Pvt. Ltd.
		Jindal	Centuary polytech
		Kingston	Kingston brass India
		Nirali	Jyoti (India) matel Industries Pvt Ltd.
		Hindware	HSIL Ltd
		Silver shine	Blue stone sanitary Industries Pvt. Ltd.
		Prayag	Prayag Polimers (P) Ltd.
		Navkar	Shri Navkar Metals Ltd.
		Futura	Futura Kitchen Sinks India Pvt. Ltd.
		CERA	CERA Sanitaryware Ltd.,
		Nilkanth	Nilkant
		Joyna	Joyna
		Franke	Franke India Ltd.
7	Sensor Based Auto flush Systems	AOS Systems.,	AOS Systems
		TOTO	TOTO Ltd
		Parryware,	Parryware
		Hindware,	HSIL Ltd
		Grohe,	Grohe
		Jaquar	Jaquar Group
		Kochier	Kochier
8	Centrifugally Caste (Spun) Iron Soil waste, Pipes and fittings.	Neco	Jayaswal Neco Ltd
		RPMF	Raj Pattern Makers and Founders Pvt. Ltd.
		SKF brand	SKF Industries
		HEPCO	Hepco
		Bengal Iron Corporation	Bengal Iron Corporation
		HIF	M/s.Babulal Bajaj Iron Foundry
9	Modular Kitchen / Wardrobes/Hardware and Accesseries	Sleek	Asian Paints
		Godrej	Godrej & Boyce Co.
		Spacewood	Spacewood
		Evoke	Evoke

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.18			
WATER SUPPLY			
1	PE-AL-PE Composite pipes	Kitec	Kitec Industries (India) Pvt. Ltd.
2	G I Pipes	TATA	TATA Steel Ltd.,
		Zenith	Zenith Birla (India) Ltd.
		Jindal	Jindal Pipes Ltd.,
		R.K. Steel	R.K. Steel Manufacturing Compnay Pvt. Ltd.,
		HISSAR	HISSAR
		Apollo	APL Apollo
3	G I Pipe fittings	Zoloto	Zoloto Industries
		Unik	Unik malleables
		HB	HB Industries
		ICS	Sgree samarth Engineers
		R.K. Steel	R.K. Steel Manufacturing Compnay Pvt. Ltd.,
4	Water supply Valves	Zoloto	Zoloto Industries
		leader	leader valves Ltd.,
		ARCO	Arco valves Pvt. Ltd.,
		Nanda	Nanda Miller company
5	CPVC pipes and fittings	Supreme	Supreme Industries Ltd.
		Finolex	Finolex Industries Ltd.
		Astral	Astral Polytechnik Ltd.,
		Prince	Prince Pipes and finttings Ltd,.
		Ajay	Ajay Industrial corporation
		Prayag	Prayag polymers Pvt Ltd.,
		Vectus	Vectus Industries Ltd.,
		Truflo	HIS Ltd.
		Anil	Anil Thermoplastics Pvt. Ltd.
		Birla Hil	HIL Ltd (CK Birla Group)
		Sentini	Sentini Flopipes India Pvt. Ltd.
		Astral	Astral Poly Technik Limited,
		Ashirwad	Ashirwad PVC Pipes
		Flowgard	Flowgaurd
6	PVC / HDPE water storage tanks	Sintex	Sintex plastic technology Ltd,.
		Vectus	Vectus Industries Ltd.
		Supreme	Supreme Industries Ltd.

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
7	Watersupply fixtures like bibcock, Shower panels CP Brass fixtures like bibcock, angle cock , Piler Cock, mixtures,Showers etc.,	Jaquar	Jaquar Group
		Parryware	Roca bath room products Pvt. Ltd,
		Metro	Metro sanitations Pvt. Ltd.,
		Waterman	Kewal brothers
		Seiko	Seiko Sanitations
		Prayag	Prayag polymers Pvt Ltd.,
		Kingston	Kingston brass India
		Johnson	Prism Jhonson Ltd
		Shakti	Shakti Enterprises
		CERA	CERA Sanitaryware Ltd.,
		MARC	MARK Showers
		HINDWare	HSIL Ltd.
8	Air release valve	Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd.,
		Kartar	Kartar valves private Ltd.,
9	Centrifugally (Spun) Cast Iron pipes	Lanco	Electrosteel castings Ltd.
		Jindal	Jindal saw Ltd.
		Kesoram	Kesoram Industries Ltd.
		Electrosteel	Electrosteel castings Ltd.
10	Spun cast iron fittings	Neco	Jayaswal Neco Ltd.
		Kartar	Kartar Valves Private Ltd.
		Electrosteel	Electrosteel castings Ltd.
		Kapilansh Centrifugal	Kapilansh Dhatu Udyog(P)Ltd.
		SKF brand	SINGHALIRON FOUNDARY Pvt. Ltd.,
11	CI double flange sluice valve	Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd.,
		Kartar	Kartar valves private Ltd.,
		IVS	Indian valves private Ltd.,
		Zoloto	Zolota Industries
		Leader	Leader valves Ltd.
		BURN	BURN
12	CI double flanged non return valve	Kirloskar	Kirloskar Brothers Ltd.,
		Fluidtech	Fluidtech
		Zolto	Zolota Industries
13	Gun metal Valves	Zolto	Zolota Industries
		Leader	Leader valves Ltd.
		Sant	Sant valves Pvt Ltd,
		Audco	L&T Valves

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
14	PTMT/PVC water supply fittings like bibcocks, pillar cock, Angle valve, Stop Valve etc.	PEARL	Precision Products
		Prayag	Prayag Polymers (P) Ltd
		Supreme	Supreme Industries
15	Float Valve (Ball Valve)	Prayag,	Prayag Polymers (P) Ltd
		Leader,	Leader valves Ltd.
		Zoloto,	Zolota Industries
		IBP	IBP Industries
		Arco	Arco valves Pvt. Ltd.,
16	HDPE pipes	DEC	D.E.C Infrastructure & Project (India) Prviate Limited.
SUB HEAD No.19			
DRAINAGE			
1	• RCC Pipes	Indian Hume Pipe	Indian Hume Pipe Ltd.,
		Jain & Co	Jain spun pipes Co.,
		Lakshmi Sood & Sood	Lakshmi Sood & Sood Pipe Co.
	(*) Madurai spun pipes has been discontinued from the approved list as they have confirmed that they do not possess BIS license.		
2	CI Manhole cover	Neco	Jayaswal Neco Ltd.,
		BIC	Bengal iron corporation
		DEC	DEC Infrastructure & Project (India) Prviate Limited.
		HEPCO	Binay Udyog Pvt. Ltd.
3	SFRC Cover and grating	KK	KK Manhole and gratings Co Pvt Ltd.,
		Advent	Advent concrete vision
		Nu-TEC	Nu-Tech concrete products (P) Ltd,.
		Kutty	Kutty Industries
		DEC	DEC I & P India Pvt.Ltd.
4	Plastic Encapsulated Foot Rest	KK India	KK Manhole and gratings Co Pvt Ltd.,
		KGM	KGM Exports .
		Accurate Buildcon	Accurate Buildcon company.
5	Spun cast iron covers & gratings	Neco	Jayaswal Neco Ltd
		Jagannath	Sri Jagannath Iron Foundry Pvt. Ltd.
		Kapilansh Centrifugal	Kapilansh Dhatu Udyog(P)Ltd.
		SKF brand	SINGHALIRON FOUNDARY Pvt. Ltd.,

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.21			
ALUMINIUM WORK			
1	Aluminium doors/windows sections	Hindalco	Hindalco Industries Ltd.,
		jindal	jindal Aluminium Ltd.,
		Bhoruka	Bhoruka Aluminium Ltd.,
		Indal	Indian Aluminium Ltd.,
		Padmavathi Extrusion	Padmavathi Extrusion Private Ltd.
		Hydro	Hydro Extrusion
		Omalco Extrusion	Omalco Extrusion Pvt. Ltd.
2	Aluminium systems/ Anodised aluminium fittings for doors/windows	Bhoruka	Bhoruka Aluminium Ltd.,
		Define	Define Overseas Pvt. Ltd.
		Schueco	Schueco India Pvt. Ltd.,
		Bhoruka	Bhoruka Aluminium Ltd.,
		Kawneer	Kawneer India
		Hardima	Hardima sales corporation
		Everite	Everite Agencies
		Sigma	Sigma Corporation
		Jyothi	Jyothi Industries
3	Friction stay hinges	Earl Bihari	Earl Bihari Pvt. Ltd.
		KINLONG	Kinlong Industries
4	EPDM Gaskets	Anand	Anand NVH products (P) Ltd.,
		Roop	Roop Polymers Ltd.,
		Bohra	Bohra rubber Pvt Ltd.,
		Hanu	Hanu Industries
		Amee Rubber	Amee Rubber Industries Pvt Ltd.
5	Silicon Gaskets	Sree Gaurav	Sree Gaurav Rubber products
6	Masking Tapes	3M	3M
		Sun	Sun
		Wonder polymer	Wonder Tape Industries
		Roop	Roop Polymers Ltd.,
7	Rockwool/ Glasswool insulation	Twigafiber, ,	Twigaifiber glass ltd
		Llyod Insulation	Llyod Insulation Ltd.
		Supereme	Supereme Industries ltd
8	Aluminium Formwork	MFE(MIVAN)	MIVAN
		S-Form	S-Form
		MFS	MFS

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.22			
WATER PROOFING WORK			
1	Water proofing compound	Fosroc	Fosroc India
		Sika	Sika India
		Dr. Fixit	Pidilite Industires
		CICO	CICO Technologies Ltd.,
		Impermo	Snowcem paints
		Accoproof	ACC cements Ltd.,
		Ardex Endura	Ardex Endura (India) Ltd
		Alchemica	Alchemica Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		MYK Schomburg	MYK Arments range of products
		Penetron	Penetron India Pvt.Ltd
		Smart Care	Asian Paints
		Cementmix Plus/Advanced Latex Plus	Berger Paints
		Shaliplast LW+	STP Ltd
		Mapecure AS/Mapecure E 30/Mapecure ASE	M/s MAPEI Constructions Product India Pvt. Ltd.
		KCPL	Kunal Conchem Pvt. Ltd.,
2	Membarane Water proofing system	BASF	BASF India Ltd.,
		STP Ltd	STP Ltd
		Texsa	Texsa India Ltd
		WR Grace	WR Grace Co India Pvt Ltd,
		Dr. Fixit	Pidilite Industires
		Alchemica	Alchemica Ltd.
		Hydro tech	Hydro tech Ltd
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		MYK Schomburg	MYK Arments range of products
		Asian paints	Smart Care Water Proofing products
		Ardex Endura	Ardex Endura ltd
		Mapeplan TU S20/Planiseal 88/Planis eak 288	M/s MAPEI Constructions Product India Pvt. Ltd.
		Elastoroof PU/Sunroof PU/Sunkote	Sunanda Speciality Coatings Pvt.Ltd
		KCPL	Kunal Conchem Pvt. Ltd.,

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
3	Chemical water proofing system	BASF	BASF India Ltd.,
		MC-Bauchemie	MS-Bauchemie India Ltd.,
		Sika	Sika India
		Sunanda speciality coating	Sunanda speciality coating Pvt Ltd.
		Perma construction Aid	Perma construction Aid Pvt Ltd,
		Fosroc	Fosroc India
		Dr. Fixit	Pidilite Industires
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Smart Care	Asian Paints
		Latexshield 2K/Tankshield PW	Berger Paints
		KCPL	Kunal Conchem Pvt. Ltd.,
4	Water stops	Hydrotite	Sika India
		BASF	BASF India Ltd.,
		Dr. Fixit	Pidilite Industires
		Hydroswell	Sika India
		Ardex Endura	Ardex Endura ltd
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Smart Care	Asian Paints
5	Atactic Polypropylene (APP) Modified Water proof Membrane	STP	Shalimar Tar Products
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Bitumat Co. Ltd,	Bitumat Co. Ltd,
		Pidilite	Pidilite Industries Ltd.
		Ardex Endura	Ardex Endura
		Hydrotech Ltd.	Hydro tech Ltd
		Smart Care	Asian Paints
		Proshield	Berger Paints
		IWL India Limited	IWL India Limited
6	EPDM Water Proofing Membrane	Smart Care	Asian Paints
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Pidilite	Pidilite Industries
		STP	Shalimar Tar Products
		Fosroc	Fosroc India
SUB HEAD No.25			
ALUMINIUM COMPOSITE PANELS			
1	Aluminium composite panels	Alucobond	3A Composites India Pvt.Ltd.
		Eurobond	M/S Euro panel products Pvt. Ltd.
		Aludecor	M/S Aludecor Lamination Pvt. Ltd.
		Reynobond	Reynobond
		Alpolic	Alpolic
		Alstrong	Alstrong
		Hynadecor	Hynadecor AC Panels, Delhi
		Alstone	Alstone, New Delhi
		Eurobond	Eurobond Pvt. Ltd., Delhi

Assistatn Engineer (Admn) O/o. CE,Chennai, CPWD,Chennai

Sl.No	Material Description	Material	
		Brand	Make
2	Structural Glazing	Modi, ,	Modi Guard
		Saint Gobain	Saint Gobain Glass India Ltd.,
		Asahi,	Asahi India glass Ltd,
		Glaverbel.	Glaverbel India
3	Spider Patch Fittings for Structural Glazzing	Dorma,,	Dormakaba India Pvt. Ltd
		Sevax	Saint Gobain Glass India Ltd.,
		,Kich	Kich India
		,Ozone	Ozone Ltd
		Hafele	Hafele Ltd
MISELLANEOUS ITEMS			
1	PVC Perforated Pipes	Rex Polyextrusion	Rex Polyextrusion Ltd,
		Akash Enterprises	Akash Enterprises
		Zenplas Pipes	Zenplas Pipes Pvt. Ltd.,
		Supreme	Supreme Industries
2	Play Equipements	Koochie Play	Koochie Play Systems Pvt. Ltd,
		Playworld Systems	Playworld Systems India
3	Structural Sealant	Dow corning	Dow corning India
		Wacker	Wacker Silicones.
		GE	GE Silicones
		Fosroc	Fosroc India
		BASF	BASF India Ltd.,
		STP Ltd.	Shalimar Tar Products
		Asian paints	Smart Care Sealant
4	Poly-sulphide sealant	Dr. Fixit	Pidilite Industries Ltd,
		Chemetall-Raj	BASF India Ltd.,
		Fosroc	Fosroc India
		Techseal	Choksey Chemical Pvt. Ltd,
		Tuff seal	Bondit construction Chemical
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		MYK Schomburg	MYK Arments range of products
		Pidilite	Pidilite Industeries
		STP Ltd.	Shalimar Tar Products
		Smart Care	Asian Paints
5	Bitumen Impregnated Board	Shalitex	STP Limited
6	Polyethylene backer rod	Supreme	Supreme Industries

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Sl.No	Material Description	Material	
		Brand	Make
7	Epoxy	Fosroc	Fosroc India
		Shalibons	STP Limited
		CICO Poxy	CICO Technologies Ltd.,
		Ardex	Ardex Endura (India) Pvt. Ltd,.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Asian paints	Asian Paints
8	Weather / Structural Silicon sealent	Dow corning	Dow corning India
		Momentive (GE)	GE Silicones
9	GRC Jali	Terrafirma	Terrafirma GRC Industries
		Ecovision	Ecovision Industries Pvt. Ltd.,
		Mahesh GRC	Mahesh Prefab Pvt Ltd.,
10	Air transfer grills	Cool grills	Cool grills, Pune
		Systemair India	Systemair India Pvt. Ltd.,
11	Ply wood for concrete shuttering work.	Balajee ply	Balajee ply product Pvt.Ltd
12	Grass Paver	Unistone	Unistone
		Ultra	Ultra Ltd.
13	Puff Insulations	Smart Care	Asian Paints
		Llyod Insulation	Llyod Insulation (India) Ltd.
		Fosroc	Fosroc India
		BASF	BASF
		Pidilite	Pidilite Industries Ltd.
		Supreme	Supreme ltd
14	Wood polymer composite materials for Door frames and shutters, Plain/ pre laminated boards for wall linings etc,.	Alstone	Alstone Industies Pvt. Ltd., Jaipur, Rajastan
		Ecoste	Ecoste wood polymer composite, Delhi
		Echon	Kumar Arch Tech Pvt. Ltd, Rajastan.
		Rajasree	Rajeswari Products Pvt.Ltd, Madya Pradesh
		Qute	Qute Extrusions Pvt. Ltd., Chennai
		Prominance	Prominance Window Systems
15	Bamboo Wood Flooring and Wall Paneling	Epitome Bamboowood Products	Mutha Industries
		Floor India	Flooring India Company, Panipat Haryana
		Ecorgreen flooring	Jupiter Traders, Bangalore.
16	Organic microbes for OWC	Prapt Organics	Prapat Organics
		Mygreen Bin	Mygreen Bin
		Shara Eco Products	Shara Eco Products

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Annexure-II
As on 02.12.2020

LIST OF APPROVED ELECTRICAL MATERIALS (E&M)
(Includes the list approved by SDG(PRC) and ADG(RC), if any , as on 02.12.2020)

NOTE: Not withstanding to the approval given in the list, the field staff are requested to observe the following conditions

1	Equivalent material and finishes of any other make may be used on written request of the contractor, in case of unavoidable circumstances and also if it is established that minimum three brands are not specified below or three brands out of all brands specified below are not available in the market, after written approval of the alternate brand by the NIT approving authority. This substitution shall be subject to cost adjustment in case the substituting brand is available at cheaper rates in market than those mentioned herein above. There shall be no cost adjustment if the substituting brand is costlier in market than those mentioned herein.
2	In addition, the brands approved as hereunder , should have valid and active BIS certificate as on the date of supply for the work.
3	Material shall conform to Make in India policy of Government of India as on the date of supply for the work.
4	Other brands not included in the list below but having BIS certificate on the date of supply for the work shall only be allowed against note (1) above.
5	In Case of non-availability of BIS codes for any of the materials incorporated above, the Engineer-in -Charge shall send the materials for testing as per the relevant ASTM or EN codes and satisfy himself before using the same in work.

Internal Electrical Installations

S. NO	Name of the Product	Manufactured by
1	PVC insulated copper conductor FRLS copper ISI Marked	Anchor/Finolex/Havells/RR Kabel/ Asmon /Mescab /L&T /KEI / Power flex /Superlite/ Polycab/ Q-flx/ Goldmedal/ Orbit/ Laser Cables.
2	MCB / DB's	Legrand/Siemens/Schneider/ABB/GE./ Hager/ Eaton/ L&T/Panasonic by Anchor/ Asmon/ Havells/ BCH/ C&S/ Indo Asian/ Gold Medal/ Great White.
3	DB/ELCB/ RCCB & Accessories	Legrand Ekinox3/Schneider ACT19/Siemens Betagard/Myrius/Crabtree/Panasonic/Havells/Eaton / ABB/ GE/ Hager/ L&T/ Asmon/ Panasonic by Anchor/ Asmon
4	UTP Cable	Legrand/Molex/Finolex/Commscope/ Panduit-Pannet. / Havells/Batra/Henlay
5	OFC Cable	Finolex/Sterlite Tech /Commscope/ Corning/ Panduit/ Siemen
6	XLPE UG Aluminium/Copper LT Cable	CCI/Gloster/Havell/Universal/Finolex /Torrent/ KEI/ RPG Cables/ RR Kable/ Henlay/ Polycab/ Gold Medal/ Orbit/ Laser Cables/ Great White/ Q-Flx/ Waina/ LappaKable/ Anchor Panasonic/ Batra.
7	Cable glands	Jainsons / Comet / Dowells / Prabath/ Polycab/ Peeco/ Gripwel/ Raychem/ Grandlay.

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8	Cable Lugs	Jainsons / Comet / Dowells / Prabath/ Polycab/ Peeco/ Gripwel/ Raychem/ Grandlay/ multi / capital / Schneider Electric
9	DWC Pipe	Gemini / Rex /Duraline
10	PVC Conduit (ISI Marked) (Colour- Ivory /Grey)	Avonplast/AKG/Precision/Modi/Anchor/Vasavi / Emjay/Javeri)/ D.E.C Infrastructure & Project/ Polycab/ Finolex/ BEC/ Konseal/ Asian/ Nihar/ Anchor penosonic
11	GI Pipe	Jindal / TATA/Zenith Birla/ SAIL.
12	Telephone / Cat 6 Cable	Legrand / Delton / AMP / Havells/Superlite/ Q-Fix/Orbit/ Laser Cables/ Great White.
13	Modular Switches & Sockets, Fan Regulator,RJ-45 Data Socket for CMS applications.	Legrand-Myrius/ Crabtree-Athena/MK- LogicPlus /HoneywellBenzPlus/ Anchor(RomaPlus) /Schneider (Livia)/Savic/ Havells(ORO)/ Lisha/ Polycab/ Indo Asian/ C&S/ Gold Medal/ Great White/ Zencilo & Panasonic.
14	Modular type Switches/GI Boxes/Sockets T.V/Telephone/LAN socket Outlet etc for Normal application	Legrand-Myrius-Arteror/Schneieder-Opale-Livia /MK-Elements/ Crabtree/ Panasonic/ Havells(ORO) / MK-Logic Plus/ Honeywell(Benz Plus)/Anchor/(Roma Plus)/ Savic/ Crab tree-Athena / Lisha/ Polycab/ Indo Asian/ C&S/ Gold Medal/ Great White/ Zencilo & Panasonic.
15	AC Ceiling Fans (Star rated/1200mm/1400mm)	Crompton/Orient/Havells/Bajaj/Surya/Almonard/ Anchor Panasonic/ Polycab.
16	BLDC Fans (Ceiling Fans /Wall Fans / Pedestal Fans / Exhaust Fans)	ATOMBERG-Efficio.
17	Exhaust Fan	Crompton/Orient/Havells/Almonard/Bajaj /Anchor Panasonic/ Polycab.
18	All LED Fittings (Indoor / Outdoor Light Fittings)	Crompton/Bajaj/Halonix/Philips/Surya/Jaquar/Wipro/ Havells/Corvi/Syska/ Panasonic / Eveready / LightingTechnologies/ Litaski/Polycab / Elenserve / Banbury/ K-Lite/ Gold Medal/ Venture Lightings/ Great White/ Luker/ Bega / Disano.
19	Electrical LT Panel Boards/ Feeder Pillars/ Meter Boards/ Control & Relay Panels.	Tricolite Electric Industries (Pvt.)Ltd./Advance Panel and Switchgears Pvt.Ltd/Adlec Mundka/ Neptune/ Power Control Eqipments/Load Controls/Amararaja/Leela Electric and Manufacturer having in-house 7 tank process, powder coating facility, CNC Machine having CPRI approved for relevant bus bar rating.(The decision of the Engineer – in- charge will be final and binding.)
20	Changeover Switches , SDFU	L&T / ABB / Schneider/C&S/ Legrand / Havells/ Indo Asian/GE/ Socomee/ Siemens/ Hager/ Anchor.
21	Moulded Case Circuit Breaker/Motor protection circuit breaker Electric	Siemens/ ABB / L & T/C & S /Schneider/ Legrand / GE / Hager/ Havells/ BCH/ Indo Asian / Eaton.
22	Phenolic laminated sheet	3 mm thick with ISI mark

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23	Ammeter / Voltmeter / Combined Meters	AE / Mecon / Schneider / L&T / HPL/ C&S / Conserve/ Kaycee /Crompton Greaves / Scomec(Diris) .
24	Analogue Panel meters	AE / Mecon / Schneider / L&T / HPL/ C&S / Conserve/ Kaycee.
25	TV Coxial Cable	Havell's / Finolex/Anchor/DELTON/RR KABEL/ Superlite
26	Cable trays (Hot Dip Galvanised.)	RMCON / Profab / Indiana / MBM/ Legrand/ BEC.
27	Fire Extinguisher (with ISI mark)	CeaseFire/Safex/Minimax/Agni/Usha Fire Safety/ Padmini
28	MS Conduits (ISI Marked)	AKG/BEC/Gupta/RMCON/Javeri/ Jindal/ TATA/ Zenith Birla /NIC / Steel Kraft
29	Connector/Terminal block	Wago/Elemac/Phoenix/ Essen /Connectwel.
30	CAT5/6 Cables & Wires.	Amp/Legrand/Molex/Digilink/Belkin/Belden/KEI/ Krone / Systemax.
31	PVC Batten / Angle Holder	Anchor / Salzer / Havells/ Emporer/ K555.
32	Rising main, End Feed Unit,Tap Off Box	C&S/Legrand/Schneider/Siemens/L&T/ ABB-Megaduct(If Air Insulated)/Godrej (S.M.A.R.T.) Zucchini.
33	Wall Bracket – fancy and decorative wall bracket	Havells/Wipro/Philips/ Crompton.
34	ACB 415 V, 400 A-2000 A	Havells/ ABB/ Siemens/ L&T/ Schneider/ Legrand/ Anchor/ Hager / GE / Crompton/ Indo Asian / Eaton.
35	DLP Trunking	Legrand/OBO Betterman/Schneider/MK
36	Floor Trunking/Raceway (GI)	Honeywell MK/OBO Betterman/ Legrand/ Profab
37	Selector Switch	BCH/Rishabh/Conserv/Kaycee/AE/ Crompton Greaves
38	Multifunction Meter/Load Managers	Schneider / Siemens/ Legrand/ Secure/ Socomec(Diris)
39	Capacitor and Harmonic Block Reacter Thyristor Module	L&T/Schneider/Neptune (Ducati)/Legrand.
40	APFC Relay (Microprocessor based)	Schneider/L&T/Neptune/Siemens/Legrand.
41	Automatic transfer switch (4P,100A, Std. Automatic)	Havells/ ABB/ Siemens/ L&T/ Schneider/ Legrand/ Anchor/ Hager.
42	Architectural Lighting Poles & Decorative Brackets (Street Light Poles)	K-Lite.
43	Water Supply Pumpsets	KarVel / Lubi/ Deccan.
44	Liquid & Gas Flow level Meters	Magnum / Presevi.
	Note: Modular Switch/Bell Push /Socket/Fan regulator shall be of same make For items where preferred makes are not specified the decision of the Engineer-in- charge will be final and binding.	

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Providing Fire Alarm System		
All the components of the entire FA system shall be preferably from a single manufacturer only.		
S. NO	**Name of the Product**	**Manufactured by**
1	Addressable Multi sensor smoke Detectors/Heat detector	NOTIFIER/BOSCH/ SYSTEM SENSOR BY HONEY WELL/ SIEMENS/ GE-SECURITY (EDWARD)/RAVEL/ MIRCOM.
2	Addressable Manual pull box	
3	Networkable Intelligent Analog Addressable Main Fire Alarm Control Panel with Battery Backup	
4	Addressable Control Module, isolator module, monitor module	
5	Hooters, Strobe , speaker, telephone jack, telephone receiver	
6	Digital Amplifier/Emergency voice evacuation system	
7	Response Indicator	Agni/ Edward/Ravel/Bosch/Notifier/Siemens
All component serial no. 1 to 6 shall be UL listed without fail. If any product above is not having UL listing, the same shall not be used.		

PA System		
S. NO	**Name of the Product**	**Manufactured by**
1	Cat-6 Cable, Wires	Amp/Krone/Legrand/Panduit/Systemax/Molex/Finolex/Commscope/Siemen/Walna/Lappkabel/Anchor-Panasonic/Havells/Batra Henlay / Belkin/ Belden/ KEI/ Digilink.
2	Speaker & accessories	Ateis/Audiotrak/Bosch/Philips/Honeywell/TOA/JBL
3	Voice evacuation system	Edwards/Notifier/Tyco/Bosch/Notifier/Siemen/ Schneider/Mircom
4	Twisted pair shielded Cu conductor	Finolex/Fusion Polymers/Polycab/RR kabel/ Havells/ Avocab / Lapp
5	Metallic/GI Conduit (ISI approved)	AKG/BEC/NIC/Steel Kraft/VIMCO / Gupta/ RMCON/ Javeri
6	Accessories for Metalic/GI Conduit (ISI approved)	AKG/BEC/NIC/Steel Kraft//VIMCO / Jindal/Tata/Zenith Birla
7	Talk back system	Royal electronics /Agni/ Tyco/Legrand /BOSCH/ Notifier/ Siemens/Edward/Schiender/MIRCOM
8	TTA Panel conforming to IS 61439 Design	BOSCH/Notifier/Siemen/Edward/Schenider
9	Any other item.	As per approval of Engineer-in-charge.
	NOTE: Equivalent material and finishes of any other speciliazed make may be used, in case it is established that the brands specified above are not available in the market but only after approval of the alternate brand by the Competent Authority/ NIT Approving authority.	

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WET RISER SYSTEMS		
S. NO	**Name of the Product**	**Manufactured by**
1	PUMPS	KIRLOSKAR/Grundfoss/MATHER& PLATT
2	MS/GI PIPES WITH ISI mark	JINDAL/TATA/Zenith Birla
3	BUTTERFLY VALVE	AUDCO/ INTER VALVE/ NORMEX/Honeywell
4	NRV (Ball Valve)/Y Strainer	NORMEX/Audco/Intervalve/Honeywell
5	First aid hose reel with ISI mark	PADMINI/Minimax/Newage/Omex
6	First aid hose reel, ISI mark with hose reel drum	NEW AGE/ SAFEX/EVERSAFE/ OMOX/ PADMINI
7	CANVAS HOSE ISI marked	NEW AGE/ ARIHANT/ WINCO/ PADMINI
8	DOUBLE/SINGLE HYDRANT VALVE/branch pipe all with ISI mark	NEW AGE/ EVERSAFE/ WINCO/ ARIHANT/Kartar/Padmini
9	SLUICE VALVE with ISI mark	KALPANA/UPADHYAYA/ KIRLOSKAR
All item 1 to 6 except 5 shall be UL listed and UL marked. Any other accessories not specified shall be UL listed and UL marked only.		

Approved makes for Solar Water Heater		
S. NO	**Name of the Product**	**Manufactured by**
1	uPVC pipe	Ashirwad/Finolex/Surya/Jindal/Apollo
2	GI Pipe	Tata/Zenith Birla/Jindal
3	Steel Sheet	Tate/Sail/Jindal
4	Solar Water Heater	Bosch/Havells/KCP solar/Honeywell/ Racold/ Emmvee/ Kotak Urja/ Jain Inigation/ Siemens/ Sudarshan
5	Mineral wool	Rockwool/Twiga
6	Nitrile Rubber	Kflex /Armaflex/Aeroflex

LIST OF APPROVED MAKES FOR HVAC WORKS

Technical Specifications for split type Air Conditioners

1	Air Conditioners shall be procured and installed through Dealers authorized by OEM.
2	Unarmoured cables shall be for connections between outdoor and indoor units shall be one of these makes given in IEI package only.
3	Compressors provided shall have minimum five year warranty.
4	Air conditioning units shall have rating as per BOQ.
5	Condensers shall have copper coils.
6	Refrigerant used shall be R410a.

S. NO	DESCRIPTION OF ITEM	APPROVED MAKE
1	Air Conditioner	Carrier/LG/Samsung/Voltas/Daikin/Hitachi/Blue Star/O-General.
2	Air / Water Cooled Chiller	Voltas / Kirloskar.
3	HVAC Calibration	Magnum / Presevi

Assistant Engineer(E),O/o. CE,CPWD,Chennai

LIST OF APPROVED MAKES FOR SUB-STATION WORKS		
S. NO	**DESCRIPTION OF ITEM**	**APPROVED MAKE**
1	Tranformer (Oil Type / Dry Type)	Crompton Greaves / Kirloskar / ABB / AREVA / Prolec GE / ALSTHOM / SIEMENS / BHEL / Wilson / Schneider/ Voltamp.
1a	Packaged Substation / Unitised Substation	Crompton Greaves /Amararaja / ABB /Voltamp
2	H. T. Cables	CCI / UNISTAR / Gloster / Finolex / Havells / KEI/ RPG/ Anchor.
3	H. T. Cables Jointing Kits	Rayhem / 3M / CCI-Xicon / Denson / M-Seal
4	Selector Switches for LT panels	Kaycee / BCH / L & T Salzer / Siemens / Schneider Electric
5	Contractors for APFC panels	Siemens / ABB / L&T / GE / C&S / Schneider Electric / Legrand
6	Electronic Load Manager	HPL / AE / Schnieder / Mecon / L&T / Conzerv
7	Indicating Lamps (LED type)	Siemens / Teknic / L&T / BCH / C&S / ABB / Schneider / JAI BALAJI / VAISHNO
8	Push Buttons	Siemens / Teknic / L&T / BCH / C&S / ABB / Schneider / JAI BALAJI / VAISHNO
9	M.V. Power Capacitors	L&T Heavy Duty Box Type / Siemens Epcos V (AC) 3PH, 50HZ / Neptune Model LLM / Schneider Varplus Energy (MDXL) 440V Range - Box Type
10	APFC Relay	Siemens / EPCOS / L&T / GE / ABB / Schneider / NEPTUNE/ **Havells**
11	Current Transformers for LT panels	Kappa / AE / BCH / L&T / ABB / Siemens / GE / MECO / Schneider / IMP / PERFECT ELECTRICALS.
12	Relays	SEGC / Crompton / Siemens / GE / ABB / Schneider / L&T
13	Fire extinguishers	Minimax / Safex / Ceasefire / Agni / Usha Fire Safety/ Padmini.
14	Sub Station Fire accessories	ISI marked (Wherever available) (Note: Where no ISI mark is available, the decision of the Engineer - in - charge shall be binding and final on the contractor)
15	First Aid Box	As approved by the State Fire Services Department
16	MS channel iron / GI pipes	SAIL / Jindal / Tata / Zenith
17	LV Glands & Lugs	Jainsons / Comet / dowells
18	Sandwich type bus trunking	Legrand / L&T / Schneider / C&S.
19	HT Panel	ABB / Siemens / Schneider / System Control / Kirloskar/ BK Power.
20	Electric insulation mat with ISI mark	Dozz / Padmini / Raychem / Jyoti Rubber Udyog

XII/2020

ASSISTANT ENGINEER (E)
O/o Chief Engineer, Chennai, CPWD
Chennai-90

CENTRAL PUBLIC WORKS DEPARMENT

General Conditions of Contract

Construction Works 2023

Incorporating Amendments upto Circular bearing No. DG/CON/340 dt. 21.08.2023

Knowledge Resource center, IISER Tirupati

Percentage Rate / Item Rate Tender & Contract

Index /

Sl. No. /	Details /	Page/
1	General Guidelines -	2
2	Tender Form CPWD-7/8 - 7·8	3 – 4
3	General Rules and Directions -	5 – 8
4	Conditions of Contract -	9 – 11
5	Clauses of Contract -	12 – 56
6	Integrity Pact -	57 – 62
7	CPWD Safety Code -	63 – 67
8	Model Rules for the Protection of Health and Sanitary Arrangements for Workers -	68 – 72
9	CPWD Contractor's Labour Regulations -	73 – 77
10	Proforma of Registers (Appendix-I to Appendix-XVI) - XVI	78 – 97
11	Reference of disputes and amount claimed for each dispute to the Conciliator (Appendix-XVII) - XVII	98
12	Notice for appointment of Arbitrator (Appendix-XVIII) - XVIII	99
13	Agreement towards waiver of Section 12(5) of Arbitration & Conciliation Act 1996 (Appendix-XIX) - 1·6 12·5 XIX	100
14	On non-judicial stamp paper of minimum Rs. 100 - 100	101 – 102
15	Proforma of Schedules A to F -	103 – 108
16	Annexure Showing Quantities of Materials for Areas of Surfacing to be Considered for Working out Minimum Period of Road Roller -	109 – 110

Addition: **NIL** Correction: **NIL** Overwriting: **NIL** Deletion: **NIL** **AE(P)** **EE(C)**

GENERAL GUIDELINES

1. This book of "General Conditions of Contract" is applicable to both types of tenders i.e. "Percentage rate tenders and Item rate tenders". Accordingly, alternative provisions for conditions Nos. 4A, 9 & 10 of the General Rules and Directions are given in this book. The appropriate alternatives will be applicable in specific cases depending on whether this is used for percentage rate tender (CPWD-7) or item rate tender (CPWD-8).

2. CPWD-6, Schedules A to F, special conditions/specifications and drawings etc. will be part of NIT and shall be uploaded.

3. The intending bidders will quote their rates in Schedule A and schedule A to F and performa for registers are only for information and guidance

4. Authority approving the Notice Inviting Tenders (NIT) shall fill up all the blanks in CPWD-6 and in Schedules B to F before issue of Tender Papers.

5. The intending bidders will quote their rates in Schedule A.

6. The proforma for registers and Schedules A to F are only for information and guidance. These are not to be filled in the Standard Form.The Schedules with all blanks, duly filled, shall be separately issued to all intending tenderers

Note :- In case of any discrepancies between Hindi and English version, English version will prevail.

CPWD - 7/8

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

Percentage Rate Tender/Item Rate Tender & Contract for Works

(A) Tender for the work of :-

.....

.....

(i) To be uploaded by..... hours on ..... to/upload at

(ii) To be opened in presence of tenderers who may be present at ..... hours on ..... in the office of .....

TENDER

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

I/We hereby tender for the execution of the work specified 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 ..... days from the due date of its opening in case of single bid system..... from the date of opening of technical bid in case tenders are invited on 2 /3 bid/ system for specialised work and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute 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:

A C C E P T A N C E

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 .....

सत्यमेव जयते

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

General Rules & Directions

1. All work proposed for execution by contract will be notified in a form of invitation to tender pasted by publication in News papers or posted on website as the case may be.This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance guarantee to be deposited by the successful tenderer 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 tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.

2. In the event of tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act 1952.

3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.

Applicable for Item Rate Tender only (CPWD - 8)

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

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

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

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

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

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

Applicable for Percentage Rate Tender only [CPWD- 7]

4A. 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 :-

I. The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.

II. 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.

III. 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.

4B. In case the lowest tendered amount (estimated cost $\pm$ 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, or CE of the zone EE(s) in-charge of major & minor component(s) (also DDH in case Horticulture work is also included in the tender), & the lowest contractors those have quoted equal amount of their tenders.

In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor.Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.

5. The officer inviting tender or his duly authorized assistant, will open tenders in the presence of any intending contractors who may be present at the time.

6. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.

7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgment or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.

Applicable for Item Rate Tender only (CPWD - 8)

8. In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.

However, if a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer and earnest money deposited shall be forfeited.

Applicable for percentage Rate Tender only (CPWD - 7)

9. 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.

Applicable for Percentage Rate Tender only (CPWD - 7)

10. 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.

11. (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E' and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee of any Commercial Bank.

(ii) The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 2.5% of the tendered amount of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above. The Security amount will also be accepted in the shape of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks will be accepted for this purpose provided confirmatory advice is enclosed.

12. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.

13. 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.

14. The contractor shall give a list of both gazetted and non-gazetted C.P.W.D. employees related to him.

15. 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.

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

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

CONDITIONS OF CONTRACT

Definitions

1. The **Contract** means the documents forming the tender 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, places on, into or or where work is to be executed under the contract or any adjacent land, path or street or where work is to be executed under the contract or any adjacent land, path or street which may be temporally 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) **Government** or **Government of India** shall mean the President of India.

   (vi) 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.

   (vii) The term **Director General** includes Special Director General/Additional Director General/Chief Engineer.

   (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) (a) **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.

(b) Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued upto the date of receipt of the tender.

(xi) **Department** means CPWD or any department of Government of India which invites tenders on behalf of President of India as specified in schedule 'F'.

(xii) **District Specifications** means the specifications followed by the State Government in the area where the work is to be executed.

(xiii) **Tendered value** means the value of the entire work as stipulated in the letter of award.

(xiv) **Date of commencement of work**: The date of commencement of work shall be the date of start as specified in schedule '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.

(xv) **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 tender documents . 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 labourers, 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 labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.

Sufficiency of Tender

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

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) CPWD 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 therefrom 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

9. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

(i) the notice inviting tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender 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 annexures 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 CONDITION OF CONTRACT

CLAUSES OF CONTRACT

Clause 1

Performance Guarantee

(i) The contractor shall submit an irrevocable Performance Guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This Guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

(ii) The Performance Guarantee shall be submitted by the contractor on format as per GCC and shall be initially valid up to the stipulated date of completion plus minimum 6 months beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest. However, in case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

(iii) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

(a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.

(b) Failure by the contractor to pay President of India any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.

(iv) In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the President of India.

(v) On substantial Completion of any work which has been completed to such an extent that the intended purpose of the work is met and ready to use, then a provisional Completion certificate shall be recorded by the Engineer-in-Charge. The provisional certificate shall have appended with a list of outstanding balance item of work that need to be completed in accordance with the provisions of the contract.

This provisional completion certificate shall be recorded by the concerned Engineer-in-charge with the approval of Superintending Engineer /Project Manager / Chief Engineer/ Chief Project Manager, if required. After recording of the provisional Completion Certificate for the work by the competent authority, the 80 % of performance guarantee shall be returned to the contractor, without any interest.

However in case of contracts involving Maintenance of building and services /any other work after construction of same building and services/ other work, then 40% of performance guarantee shall be returned to the contractor, without any interest after recording the provisional Completion certificate.

Clause 1A

Recovery of Security Deposit

The person(s) whose tender may be accepted (hereinafter called the contractor) shall permit Government at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 2.5% of the gross amount of each running and final bill till the sum deducted will amount to security deposit of 2.5% of the tendered amount of the work. Such deductions will be made and held by Government by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in the form of Government Securities or fixed deposit receipts. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the security deposit and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due to or may become due to the contractor by Government on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in cash or fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favour of the Engineer-in-Charge, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills and the final bill of the contractor at the rates mentioned above.

The security deposit as deducted above can be released against bank guarantee issued by a scheduled bank, on its accumulations to a minimum of Rs. 5 lac subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs. 5 lac. Provided further that the validity of bank guarantee including the one given against the earnest money shall be in conformity with provisions contained in clause 17 which shall be extended from time to time depending upon extension of contract granted under provisions of clause 2 and clause 5.

In case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

Note-1: Government papers tendered as security will be taken at 5% (five per cent) below its market price or at its face value, whichever is less. The market price of Government paper would be ascertained by the Divisional Officer at the time of collection of interest and the amount of interest to the extent of deficiency in value of the Government paper will be withheld if necessary.

Note-2: Government Securities will include all forms of Securities mentioned in Rule No. 274 of the G.F. Rules except fidelity bond. This will be subject to the observance of the condition mentioned under the rule against each form of security.

Note-3: Note 1 & 2 above shall be applicable for both clause 1 and 1A

Clause 2

Compensation for Delay

If the contractor fails to maintain the required progress in terms of clause 5 or to complete the work and clear the site on or before the contract or justified extended date of completion as per clause 5 (excluding any extension under Clause 5.5) as well as any extension granted under clauses 12 and 15, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' may decide on the amount of accepted Tendered Value of the work for every completed day/ month (as determined) that the progress remains below that specified in Clause 5 or that the work remains incomplete.

Compensation for delay of work

(i) With maximum rate @ 1% (one percent) maximum per month of delay to be computed on per day basis based on quantum of damage suffered due to stated delay on the part of Contractor.

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10 % of the accepted Tendered Value of work. In case no compensation has been decided by the authority in Schedule 'F' during the progress of work, this shall be no waiver of right to levy compensation by the said authority if the work remains incomplete on final justified extended date of completion. If the Engineer in Charge decides to give further extension of time allowing performance of work beyond the justified extended date, the contractor shall be liable to pay compensation for such extended period. If any variation in amount of contract takes place during such extended period beyond justified extended date and the contractor becomes entitled to additional time under clause 12, the net period for such variation shall be accounted for while deciding the period for levy of compensation. However, during such further extended period beyond the justified extended period, if any delay occurs by events under sub clause 5.2, the contractor shall be liable to pay compensation for such delay.

This is without prejudice to right of action by the Engineer in Charge under clause 3 for delay in performance and claim of compensation under that clause.

In case action under clause 2 has not been finalized and the work has been determined under clause 3, the right of action under this clause shall remain post determination of contract but levy of compensation shall be for days the progress is behind the schedule on date of determination, as assessed by the authority in Schedule F, after due consideration of justified extension. The compensation for delay, if not decided before the determination of contract, shall be decided after of determination of contract.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Government. In case, the contractor does not achieve a particular milestone mentioned in schedule F, or the re-scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied as above. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

Clause 3

When Contract can be Determined

Subject to other provisions contained in this clause, the Engineer-in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, not following safety norms , inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

(i) If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.

(ii) If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.

(iii) If the contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date, on or before such date of completion; and the Engineer in Charge without any prejudice to any other right or remedy under any other provision in the contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment making such time essence of contract and in the opinion of Engineer-in-Charge the contractor will be unable to complete the same or does not complete the same within the period specified.

(iv) If the contractor persistently neglects to carry out his obligations under the contract and/ or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.

(v) If the contractor shall offer or give or agree to give to any person in Government service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for Government.

(vi) If the contractor shall enter into a contract with Government in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.

(vii) If the contractor had secured the contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Integrity Agreement.

(viii) If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.

(ix) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.

(x) If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.

(xi) If the contractor assigns (excluding part(s) of work assigned to other agency(s) by the contractor as per terms of contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer -in-Charge.

(xii) When the contractor has made himself liable for action under any of the aforesaid cases (i) to (xi), the Engineer-in-Charge on behalf of the President of India shall have powers:

(a) To determine the contract as aforesaid so far as performance of work by the Contractor is concerned (of which determination notice in writing to the If the revised tendered amount (worked out on the basis of quoted rate of individual items) contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit, Security Deposit already recovered, Security deposit payable and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Government.

(b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work. In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision

aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

Clause 3A

In case, the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Performance Guarantee of the contractor shall be refunded within following time limits:

(i)	If the tendered value is up to Rs. 1 Crore	:	15 days
(ii)	If the Tendered value of work is more than Rs. 1 Crore and up to Rs. 10 Crore	:	21 days
(iii)	If the tendered value of work exceeds Rs. 10 Crore	:	30 days

Neither party shall claim any compensation for such eventuality. This clause is not applicable for any breach of the contract by either party.

Contractor liable to pay compensation even if action not taken under Clause 3

Clause 4

In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause3 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

Time and Extension for Delay

Clause 5

The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later.

If the Contractor commits default in commencing the execution of the work as aforesaid, the performance guarantee shall be forfeited by the Engineer in Charge and shall be absolutely at the disposal of the Government without prejudice to any other right or remedy available in law.

As soon as possible but within 7 (seven) working days of award of work and inconsideration of

(a) Schedule of handing over of site as specified in the Schedule 'F'

(b) Schedule of issue of designs as specified in the Schedule 'F',

(i) the Contractor shall submit a Time and Progress Chart for each mile stone. The Engineer-in-Charge may within 7 (seven) working days thereafter, if required modify, and communicate the program approved to the contractor failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in-Charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents.

(ii) In case of non submission of construction programme by the contractor, the program approved by the Engineer-in-Charge shall be deemed to be final.

(iii) The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.

(iv) The contractor shall submit the Time and Progress Chart and progress report using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery as per Schedule F to be decided by the NIT approving authority shall be made on per week or part basis in case of delay in submission of the monthly progress report

If the work(s) be delayed by:-

(i) force majeure, or

(ii) abnormally bad weather, or

(iii) serious loss or damage by fire, or

(iv) civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or

(v) delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contract, or

(vi) any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control.

then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works.

The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone/s for events listed in sub clause 5.2.

In case the work is hindered in the opinion of the contractor, by the Department or for any reason / event, for which the Department is responsible, the authority as indicated in Schedule 'F' shall, if justified, give a fair and reasonable extension of time and reschedule the mile stones for completion of work. Such extension of time or rescheduling of milestone/s shall be without prejudice to any other right or remedy of the parties in contract or in law, provided further that for concurrent delays under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2 the contractor shall be entitled to only extension of time and no damages.

Request for rescheduling of Mile stones or extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed forms i.e. Form of application by the contractor for seeking rescheduling of milestones or Form of application by the contractor for seeking extension of time (Appendix -XVI) respectively to the authority as indicated in Schedule 'F'. The Contractor shall indicate in such a request the period by which rescheduling of milestone/s or extension of time is desired. With every request for rescheduling of milestones, or if at any time the actual progress of work falls behind the approved programme by more than 10% of the stipulated period of completion of contract, the contractor shall produce a revised programme without causing any delay in execution of the work. A recovery as specified in Schedule 'F' shall be made on per day basis in case of delay in submission of the revised programme.

5.4.1 In any such case the authority as indicated in Schedule 'F' may give a fair and reasonable extension of time for completion of work or reschedule the mile stones. E-in-C shall finalize/ reschedule a particular mile stone before taking an action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 21 days of the date of receipt of such request from the Contractor in prescribed form. In event of non-application by the contractor for extension of time E-in-C after affording opportunity to the contractor, may give, supported with a programme (as specified under 5.4 above), a fair and reasonable extension within a reasonable period of occurrence of the event.

In case the work is delayed by any reasons, in the opinion of the Engineer-in-Charge, by the contractor for reasons beyond the events mentioned in clause 5.2 or clause 5.3 or clause 5.4 and beyond the justified extended date, without prejudice to right to take action under Clause 3, the Engineer-in-Charge may grant extension of time required for completion of work without rescheduling of milestones. The contractor shall be liable for levy of compensation for delay for such extension of time.

Computerized Measurement Book (CMB)/ Electronic Measurement Book (EMB) through CPWD ERP portal

Clause 6

Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.

All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book (CMB) / Electronic Measurement Book (EMB) through CPWD ERP portal and Computerized Level Book (CLB) having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works executed under the contract.

All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his/her authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his/her authorized representative.

In case of CMB/CLB, after the necessary corrections made by the Engineer-in-Charge or his/her authorized representative, the measurement sheets/ shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in-Charge for the dated signatures by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance.

In case of EMB, the contractor shall record measurement online on ERP Portal and shall raise RFI(Request for Inspection)online for checking the online measurements by the Engineer-in-Charge or his/her authorised representative as per programme or interval fixed in consultation with Engineer-in-Charge and/or his/her authorised representative. If after verification by the Engineer-in-Charge and/or his/her authorised representative, any change is required, then Engineer-in-Charge and/or his/her authorised representative seeking the change shall return the online rejected measurements to the contractor for incorporating the changes. The contractor shall resubmit such measurements online after making necessary changes. All the changes are to be finally authorised by the Engineer-in-Charge and/or his/her authorised representative.

Whenever bill is due for payment, in case of CMB, the contractor would initially submit draft computerized measurement sheets and these measurement(s) would be got checked/ test checked from the Engineer-in-Charge and/ or his/her authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/ test checks in his draft computerized measurement(s) and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered.

In case of EMB, the contractor shall have to download EMB for the approved RFI (request for inspection), from ERP Portal, submit printout of final EMB, having pages of A-4 size without any corrections, duly bound and with its pages machine numbered.

The Engineer-in-Charge and/ or his/her authorized representative would thereafter check this CMB /EMB and record the necessary certificates for their checks/ test checks.

The final, fair, computerized measurement book (CMB) / downloaded copy of EMB /CLB given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurement(s) would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit afresh CMB / CLB /EMB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department.

Thereafter, the CMB / CLB / EMB shall be taken in the Divisional Office records, and allotted a number as per the Register of CMBs/ EMBs/ CLBs. This should be done before the corresponding bill is submitted to the Division Office for payment.

The contractor shall submit two spare copies of such CMBs/ EMBs/CLBs for the purpose of reference and record by the various officers of the department.

The contractor shall also submit to the department separately his computerizedAbstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the bill. Thereafter, this bill will be processed by the Division Office and allotted a number as per the register of CMBs/ EMBs/CLBs in the same way as done for the measurement book meant for measurements.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in-Charge or his/her authorized representative.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed.

The contractor shall give not less than seven days' notice to the Engineer-in-Charge or his/her authorized representative-in-charge of the work before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his/her authorized representative-in-charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge or his/her authorized representative may cause either themselves or through another officer of the department to check the measurements/levels recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.

It is also a term of this contract that checking and/or test checking the measurements/levels of any item of work in the CMB/ EMB/CLB and/ or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

Payment on intermediate certificate to be regarded as Advances

Clause 7

No payment shall be made for work, estimated to cost Rs. twenty lacs or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. twenty lacs, the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. An amount of ad-hoc payment not less than 75% of the net amount of the bill under check, shall be made within 10 working days of submission of the bill by the Contractor to the Engineer-in-Charge or his Authorized Engineer together with the account of the material issued by the department, or dismantled materials, if any. The remaining payment is also to be made after final checking of the bill within 28 working days of submission of bill by the contractor. In case of delay in payment of intermediate bills after 45 days of submission of bill by the contractor, provided the bill submitted by the contractor found to be in order, a simple interest @ 5% (five percent) per annum shall be paid to the contractor from the date of expiry of prescribed time limit.

All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treatedas final settlement and adjustment of accounts or in any way vary or affect the contract.

Pending consideration of extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.

The Engineer-in-Charge in his sole discretion on the basis of a certificate from the Asstt. Engineer to the effect that the work has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bills to be submitted by the contractor within 10 days of the interim payment. In case of delay in submission of bill by the contractor a simple interest @ 10% per annum on the advance payment made shall be paid to the Government from the date of expiry of prescribed time limit.

Payments in composite Contracts

In case of composite tenders, running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor component shall be made by the Engineer-in-Charge of the discipline of minor component directly to the main contractor.

In case main contractor fails to make the payment to the contractor associated by him within 15 days of receipt of each running account payment, then on the written complaint of contractor associated for such minor component, Engineer in charge of minor component shall serve the show cause to the main contractor and if reply of main contractor either not received or found unsatisfactory, he may make the payment directly to the contractor associated for minor component as per the terms and conditions of the agreement drawn between main contractor and associate contractor fixed by him. Such payment made to the associate contractor shall be recovered by Engineer-in-charge of major or minor component from the next R/A/ final bill due to main contractor as the case may be.

Clause 7A

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

Payment to third party

Clause 7B

If the exigencies of the work so demand, the engineer-in-charge may allow payment to a third party, who is creditor to the contractor, after fulfilling the following conditions:-

(a) The contractor gives an authority letter addressed to the engineer-in-charge on a non-judicial stamp paper of Rs.100 in the format given below.

I/We authorize the Executive Engineer, ... Division, CPWD to pay directly on my/our behalf to .....(name of the third party) an amount of Rs.....(Rupees ..... in words) for the work done or supplies made by ..... (name of the third party). I/We shall be responsible for the quality and quantity of the same under the provisions of agreement number .....

Signature of the contractor

(b) The total payment to third party (or parties) shall not exceed 10% of the agreement cost of the work.

Completion Certificate and Completion plans

Clause 8

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding,

surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-Charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof

Contractor to keep Site Clean

Clause 8A

The contractor shall submit completion plans for Internal and External Civil, Electrical and Mechanical Services within thirty days of the completion of the work, provided that the service plans having been issued for execution by the Engineer-in-Charge, unless the contractor, by virtue of any other provision in the contract, is required to prepare such plans.

In case, the contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum of 0.1 % (zero point one percent) of accepted Tendered Value or limit prescribed in Schedule F whichever is more as may be fixed by the authority as mentioned in Schedule F and in this respect the decision of the that authority shall be final and binding on the contractor.

Payment of Final Bill

Clause 9

The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payment of those items of the bill in respect of which there is no dispute, and for those items which are in dispute on account of quantity and/or rates shall be paid at approved quantity and/or rates by the Engineer-in-Charge, within **three months period** reckoned from the date of receipt of the bill by the Engineer in- Charge or his authorized Assistant Engineer, complete with account of materials issued by the Department and dismantled materials.

If the final bill is submitted by the contractor within the period specified above and payment of final bills is made by the deptt. after prescribed time limit , a simple interest @ 5 % per annum shall be paid to the contractor from the date of expiry of prescribed time limit, provided the final bill submitted by the contractor is found to be in order.

Payment of Contractor's Bills to Banks

Clause 9A

Payments due to the contractor may, if so desired by him, be made to his bank, registered financial, co-operative or thrift societies or recognized financial institutions instead of direct to him provided that the contractor furnishes to the Engineer-in-Charge (1) an authorization in the form of a legally valid document such as a power of attorney conferring authority on the bank; registered financial, co-operative or thrift societies or recognized financial institutions

to receive payments and (2) his own acceptance of the correctness of the amount made out as being due to him by Government or his signature on the bill or other claim preferred against Government before settlement by the Engineer-in-Charge of the account or claim by payment to the bank, registered financial, co-operative or thrift societies or recognized financial institutions. While the receipt given by such banks; registered financial, co-operative or thrift societies or recognized financial institutions shall constitute a full and sufficient discharge for the payment, the contractor shall whenever possible present his bills duly receipted and discharged through his bank, registered financial, cooperativeor thrift societies or recognized financial institutions.

Nothing herein contained shall operate to create in favour of the bank; registered financial, co-operative or thrift societies or recognized financial institutions any rights or equities vis the President of India.

Clause 10A

Materials to be provided by the Contractor

The contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Government.

The contractor shall, at his own expense and without delay supply to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply. The Engineer-in-Charge shall within thirty (30) days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-in-Charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge shall be issued after the test results are received.

The Contractor shall at his cost submit the samples of materials to be tested or analyzed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.

The contractor shall, at his cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-in-Charge and bear all charges including testing charges. The Engineer -in- Charge or his authorized representative shall always have access to the works and to all workshops and places where work component is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access.

The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-Charge shall also have

full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may attend such removal and substitution shall be borne by the Contractor.

The contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in schedule F.

Clause 10 B

Secured Advance on Materials

(i) The contractor, on signing an indenture form specified in appendix XV, shall be entitled to be paid during the progress of the execution of the work up to 75% of the assessed value of any materials, which are in the opinion of the Engineer-in- charge non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered/deducted from the next payment made under any of the clause or clauses of this contract.

Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer-in-charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel.

Mobilization advance

(ii) Mobilization advances not exceeding 10% of the tendered amount may be given, if requested by the contractor in writing within six months of the order to commence the work. Such advance shall be released in two or more installments to be determined by the Engineer-in-Charge. The amount of any installment shall not exceed 5% of the tendered amount of the work. The first installment of such advance shall be released by the Engineer-in-charge to the contractor on his request. The second and subsequent installments shall be released by the Engineer-in-Charge only after the contractor furnishes a proof of the satisfactory utilization of full amount of the earlier installment(s) to the satisfaction of the Engineer-in-Charge. The mobilization advance will be utilized for the following:

Establishment of site office for contractor and CPWD staff, testing lab, labour camps & basic amenities services for labour/staff, cement godown, reinforcement yard, stores etc.

For purchase/mobilization of any type of tool, plant and machinery required for execution of work such as concrete batch mix plant, mixtures, transit mixtures, loader, excavators dumpers, DG sets, a.vibrators, hot mix bitumen plant, paver, rollers, testing lab equipment's etc.

Barricading of site and procurement of centering / shuttering / staging material etc.

Any other item as mentioned in NIT by the NIT approving authority.

90% of the price of new items and 50% of the depreciated price of old items will be considered for assessing the utilized amount of mobilization advance.

Expenditure incurred on items/materials which are measureable and payable under agreement/extra items as well as materials eligible for secured advance will be excluded from utilized amount of mobilization advance, if any.

The assessment of Engineer-in-Charge in this respect shall be final and binding.

Before any installment of advance is released, the contractor shall execute Bank Guarantee Bonds not more than 6 (six) in number from commercial Bank for the amount equal to 110% of the amount of advance and valid for the period till recovery of advance. This (Bank Guarantee from commercial Bank on prescribed format for the amount equal to 110% of the balance amount of advance) shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery.

Interest & Recovery

(iii) The mobilization advance in (ii) above bear simple interest at the rate of 8 percent per annum and shall be calculated from the date of payment to the date of recovery, both days inclusive, on the outstanding amount of advance. Recovery of such sums advanced shall be made by the deduction from the contractors bills commencing after first ten percent of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered by the time eighty percent of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of recovery of the installment.

(iv) If the circumstances are considered reasonable by the Engineer-in-Charge, the period mentioned in (ii) for request by the contractor in writing for grant of mobilization advance may be extended at the discretion of the Engineer-in-Charge.

Payment on Account of Increase in Prices/ Wages due to Statutory Order(s)

Clause 10C

If after submission of tender, if the price of any material incorporated in the work and/ or wages of labour increases as a direct result of the coming into force of any fresh, law or statutory rule or order (but not due to any variation of rate in GST applicable on such material(s) being considered under this clause) beyond the prices/wages prevailing at the time of the last stipulated date of receipt of tenders including extensions, if any, for the work during contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, then the amount of the contract shall accordingly be varied.

If after submission of the tender, the price of any material incorporated in the works and/or wages of labour as prevailing at the time of last stipulated date of receipt of tender including extensions, if any, is decreased as a direct result of the coming into force of any fresh law or statutory rules or order (but not due to any variation of rate in GST applicable on such material(s) being considered under this clause), Government shall in respect of materials incorporated in the works and/or labour engaged on the execution of the work after the date of coming into force of such law statutory rule or order be entitled to deduct from the dues of the contractor, such amount as shall be equivalent to the difference between the prices of the materials and/or wages as prevailed at the time of the last stipulated date for receipt of tenders including extensions if any, for the work and the prices of materials and/or wages of labour on the coming into force of such law, statutory rule or order. This will be applicable for the contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2.

Engineer-in-Charge shall call books of account and other relevant documents from the contractor to satisfy himself about reasonability of increase in prices of materials and wages.

The contractor shall, within a reasonable time of his becoming aware of any alteration in the price of any such materials and/or wages of labour, give notice thereof to the Engineer-in- Charge stating that the same is given pursuant to this condition together with all information relating thereto which he may be in position to supply.

For this purpose, the labour component of 85% of the value of the work executed during period under consideration shall not exceed the percentage as specified in Schedule F, and the increase/decrease in labour shall be considered on the minimum daily wages in rupees of any unskilled Mazdoor, fixed under any law statutory role and order. The cost of work for which escalation is applicable (W) is same as cost of work done worked out as indicated in sub-para (ii)(j) of clause 10 CC except the amount of full assessed value of secured Advance.

Provided always that:

(a) Where provisions of clause 10CC are applicable, provisions of clause 10C will not be applicable.

(b) Where provisions of clause 10CC are not applicable, provisions of clause 10C will become applicable.

Clause 10CC

Price adjustment for works

If the prices of materials and/or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the condition that such compensation for escalation in prices and wages shall be available only for the work done during the stipulated period of the contract including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2. Such compensation for escalation in the prices of materials and labour, when due, shall be worked out based on the following provisions:

(i) The base date for working out such escalation shall be the last stipulated date of receipt of tenders including extension, if any.

(ii) The cost of work on which escalation will be payable shall be reckoned as below :

(a) Gross value of work done up to this quarter : (A)

(b) Gross value of work done up to the last quarter : (B)

(c) Gross value of work done since previous quarter (C) = (A-B)

(d) Full assessed value of Secured Advance fresh paid in this quarter : (D)

(e) Full assessed value of Secured Advance recovered in this quarter : (E)

(f) Full assessed value of Secured Advance for which escalation Payable in this quarter, (F) = (D-E)

(g) Advance payment made during this quarter: (G)

(h) Advance payment recovered during this quarter: (H)

(i) Advance payment for which escalation is payable in this Quarter (I) = (G-H)

(j) Amount paid based on prevailing market rates due to deviations/variations as per clause 12 during this quarter: (J)

Then, M = C+F+I-J

Cost of work for which escalation is applicable (W) = 0.85M

Components for materials, labour, etc. shall be pre-determined for every work and incorporated in the conditions of contract attached to the tender documents included in Schedule 'F'. The decision of the Engineer-in-Charge in working out such percentage shall be binding on the contractors.

(iii) The following principles shall be followed while working out the payment/recovery on account of variation of prices of materials and/ or wages of labour.

(a) The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months of the said quarter. The date of submission of bill by the contractor to the department shall be the guiding factor to decide the bills relevant to the quarterly interval. The first such payment shall be made at the end of three months after the month (excluding the month in which the letter ofcommencement of work is issued by the Engineer-in-Charge) and thereafter at three months' interval. At the time of completion of the work, the last period for payment might become less than 3 months, depending on the actual date of completion.

(b) The indices as defined below (excluding LI) relevant to any quarter/period for which such compensation is to be paid shall be the arithmetical average of the indices relevant to the three calendar months. If the period up to the date of completion after the quarter covered by the last such installment of payment, is less than three months, the indices shall be the average of the indices for the months falling within that period.

(c) The minimum wage of an unskilled Mazdoor shall be the higher of the wage notified by Government of India, Ministry of Labour and that notified by the local administration both relevant to the place of work and the period of reckoning.

(d) The escalation for labour also shall be paid at the same quarterly intervals when escalation due to increase in cost of materials is paid under this clause. If such revision of minimum wages takes place during any such quarterly intervals, the escalation compensation shall be payable at revised rates only for work done in subsequent quarters;

(e) Irrespective of variations in minimum wages of any category of labour, for the purpose of this clause, the variation in the rate for an unskilled Mazdoor alone shall form the basis for working out the escalation compensation payable on the labour component.

(iv) In the event the price of materials and/or wages of labour required for execution of the work decreases, there shall be a downward adjustment of the cost of work so that such price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard the formula herein stated below under this Clause 10CC shall mutatis mutandis apply.

(v) The contract price shall be adjusted for increase or decrease in rates and prices of labour, cement, steel reinforcement bar, fuel and lubricants and other input materials as per percentage of materials/labour specified in schedule F and in accordance with the principles, procedures and formulae specified below:

(a) Price adjustment for change in cost shall be paid in accordance with the following formulae:

(i) For Construction period of this work:

$$V_W = W*(1/100)*[C_p*(C_I-C_O)/C_O + L_p*(L_I-L_O)/L_O + CM_p*(CM_I-CM_O)/CM_O + EM_p*(EM_I-EM_O)/EM_O + F_p*(F_I-F_O)/F_O + S_p*(S_I-S_O)/S_O + B_p*(B_I-B_O)/B_O]$$

(ii) For Maintenance period of this work:

$$V_W = W*(1/100)*[L_p*(L_I-L_O)/L_O + CM_p*(CM_I-CM_O)/CM_O + EM_p*(EM_I-EM_O)/EM_O + B_p*(B_I-B_O)/B_O]$$

(* means multiplication)

Where, W=cost of work done as per para (ii) above.

V_W (Variation of cost of Work) =Increase or decrease in the cost of works during the period under consideration due to change in the rates for relevant components.

Percentage components of materials &labour as specified in the schedule F are defined as under:-

C_P - Cement component,

L_P - Labour component,

CM_P - Civil component of other construction materials,

EM_P - E & M component of construction materials

F_P - POL (Diesel) component

S_P - Reinforcement steel bars/TMT bars/structural steel (including strands and cables) component

B_P - Bitumen component

Indices for various components of materials &labour to be used for the purpose of this Clause are defined as under:

C_O = Wholesale Price Index for Pozzolana Cement published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of last date of receipt of tender including extension, if any.

C_I = Wholesale Price Index for Pozzolana Cement published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration.

L_O = Minimum daily wage in rupees of an unskilled adult mazdoor, fixed under any law, statutory rule or order as on the last date of receipt of tender including extension, if any.

L_I = Minimum wage in rupees of an unskilled adult mazdoor, fixed under any law, statutory rule or order as applicable on the last date of the quarter previous to the one under consideration.

CM_O = Price Index for civil components of other construction materials valid for the month of the last date of receipt of tender including extension, if any, as issued by the office of CE CSQ (Civil) or successor.

CM_I = Price Index for civil components of other construction materials for the period under consideration and as issued by the office of CE CSQ (Civil) or successor.

EM_O = Price Index for E & M components of construction materials valid for the month of the last date of receipt of tender including extension, if any, as issued by the office of CE CSQ (Electrical) or successor.

EM_I = Price Index for E & M components of construction materials for the period under consideration and as issued by the office of CE CSQ (Electrical) or successor.

F_O = Wholesale Price Index of HSD (High Speed Diesel)published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any.

F_I = Wholesale Price Index of HSD (High Speed Diesel) published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration.

S_O = Wholesale Price Index of Mild Steel-long products published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any

S_I = Wholesale Price Index of Mild Steel-long products published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration.

B_O = Wholesale Price Index of Bitumen published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any

B_I = Wholesale Price Index of Bitumen published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration.

(vi) Provided always that:

(a) Where provisions of clause 10CC are applicable, provisions of clause 10C will not be applicable.

(b) Where provisions of clause 10CC are not applicable, provisions of clause 10C will become applicable.

Clause 10 D

Dismantled Material Govt. Property

The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as Government's property and such materials shall be disposed off to the best advantage of Government according to the instructions in writing issued by the Engineer-in-Charge

Clause 11

Work to be Executed in Accordance with Specifications, Drawings, Orders etc.

The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of Central Public Works Department specified in Schedule 'F' or in any Bureau of Indian Standard or any other, published standard or code or, Schedule of Rates or any other printed publication referred to elsewhere in the contract.

The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.

Clause 12

Deviations/ Variations Extent and Pricing

The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided. The completion cost of any agreement for Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration should not exceed 1.25 times of Tendered amount. Any further deviation beyond this limit upto 1.5 times of tendered amount shall be approved by the authority mentioned in schedule 'F' with recorded reason and in exceptional case, ADG shall have full power to approve the deviation beyond 1.50 times of tendered amount with recorded reason and take suitable corrective action.

The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows :

(i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus

(ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge

Deviation, Extra Items and Pricing

In the case of extra item(s) (items which are not available in the contract), the contractor may within fifteen days of the receipt of order or occurrence of the item(s), submit claim for market rate(s), supported with proper analysis of rate and manufacturer's specification for the work, invoices, vouchers, etc. (as applicable), failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding. Where the contractor submits claim for market rate(s) in the manner prescribed above, the Engineer-in-Charge shall, within 45 days of the receipt of the claims, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

The rate(s) of extra items so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable.

Deviation, deviated Quantities, Pricing

In the case of contract items which exceed the limit laid down in Schedule F, the contractor may within fifteen days of the receipt of order or occurrence of the excess, claim revision of the rates, supported with proper analysis of rate and invoices, vouchers, etc. (as applicable), for the quantity in excess of the above-mentioned limit. The Engineer-in-Charge shall within 45 days of receipt of the claims, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

The rate(s) so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable.

In the case of contract items which exceed the limit laid down in Schedule F, the Engineer-in-Charge shall after giving notice to the contractor within 30 days of submission of that bill by the contractor which contains such item(s), and after taking into consideration any reply received from the contractor within 15 days of the issue of such notice, reduce the rate for quantity in excess of the above-mentioned limit on the basis of market rates, within 30 days of the expiry of the said period of 15 days, and the contractor shall be paid in accordance with the rates so determined.

The rate(s) so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable

The cost of any operation necessarily in contemplation of tenderer while quoting tender or necessary or incidental to proper execution of an item of work included in the Schedule of Quantities or in the Schedule of Rates mentioned in Schedule F, whether or not specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said Schedule of Rates, as the case may be. Nothing extra shall be admissible for such operations.

Foreclosure of contract due to Abandonment or Reduction in Scope of Work

Clause 13

If at any time after acceptance of the tender or during the progress of work, the purpose or object for which the work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope the Engineer-in-Charge shall give notice in writing to that effect to the contractor stating the decision as well as the cause for such decision and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.

The contractor shall be paid at contract rates, full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view of the foreclosure;

(i) Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks.

(ii) Government shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however Government shall be bound to take over the materials or such portions thereof as the contractor does not desire to retain. For materials taken over or to be taken over by Government, cost of such materials as detailed by Engineer-in- Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.

(iii) Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable.

(iv) Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.

The contractor shall, if required by the Engineer- in-Charge, furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.

The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the Government as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the Government from the contractor under the terms of the contract.

In the event of action being taken under Clause 13 to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid up to the extended date of completion or stipulated date of completion if no extension has been granted plus minimum 60 days beyond that. Wherever such a fresh Performance Guarantee is furnished by the contractor the Engineer-in-Charge may return the previous Performance Guarantee.

Clause 14

Carrying out part work at risk & cost of contractor

If contractor:

(i) At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 working days in this respect from the Engineer-in-Charge; or

(ii) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 working days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.

(iii) The Engineer- in-Charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to :

(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or

(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.

The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by Government because of action under this clause shall not exceed 10% of the tendered value of the work.

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor.

The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.

Any excess expenditure incurred or to be incurred by Government in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by Government as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to Government in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.

In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

Clause 15

Suspension of Work

(i) The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:

(a) on account of any default on the part of the contractor or;

(b) for proper execution of the works or part thereof for reasons other than the default of the contractor; or

(c) for safety of the works or part thereof. The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer in- Charge.

(ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above:

(a) the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;

(b) If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds thirty days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in- Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in- Charge within fifteen days of the expiry of the period of 30 days.

(iii) If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reason (a) in subpara (i) above, the contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer in- Charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the contractor, if he intends to treat the suspension, where it affects only a part of the works as an omission of such part by Government or where it affects whole of the works, as an abandonment of the works by Government, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer-in-Charge. In the event of the contractor treating the suspension as an abandonment of the contract by Government, he shall have no claim to payment of any compensation on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within 30 days of the expiry of the period of 3 months.

Clause 16

Action in case Work not done as per Specifications

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in - charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit of the Department or any organization engaged by the Department for Quality Assurance and of the Chief Technical Examiner's Office, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinates in charge of the work or to the Chief Engineer in charge of Quality Assurance or his subordinate officers or the officers of the organization engaged by the Department for Quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs. 10 Lac and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in- Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default.

In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the authority specified in schedule 'F' may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

Clause 17

Contractor Liable for Damages, defects during defect liability Period

If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after a certificate final or otherwise of its completion shall have been given by the Engineer in- Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry of twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. Provided that in the case of road work, if in the opinion of the Engineer-in-Charge, half of the security deposit is sufficient, to meet all liabilities of the contractor under this contract, half of the security deposit will be refundable after six months and the remaining half after twelve months of the issue of the said certificate of completion or till the final bill has been prepared and passed whichever is later.

In case of Maintenance and Operation works of E&M services, the security deposit deducted from contractors shall be refunded within one month from the date of final payment or within one month from the date of completion of the maintenance contract whichever is earlier.

Contractor to Supply Tools & Plants etc.

Clause 18

The contractor shall provide at his own cost all materials, machinery, tools & plants as specified in schedule F. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-in-Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof.

Recovery of Compensation paid to Workmen

Clause 18A

In every case in which by virtue of the provisions sub- section (1) of section 12 of the Workmen's Compensation Act. 1923, Government is obliged to pay compensation to a workman employed by the contractor, in execution of the works , Government will recover from the contractor , the amount of the compensation so paid: and, , without prejudice to the rights of the Government under sub- section(2) of section 12 , of the said Act, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise. Government shall not be bound to contest any claim made against it under sub- section (1) of section 12, of the said Act, except on the written request of the contractor and upon his giving to Government full security for all costs for which Government might become liable in consequence of contesting such claim.

Ensuring Payment and Amenities to Workers if Contractor fails

Clause 18B

In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and of the Contract Labour (Regulation and Abolition) Central Rules, 1971, Government is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19H or under the C.P.W.D. Contractor's Labour Regulations, or under the Rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by C.P.W.D. Contractors, Government will recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to the rights of the Government under sub-section(2) of Section 20, and sub-section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise Government shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the Government full security for all costs for which Government might become liable in contesting such claim.

Labour Laws to be complied by the Contractor

Clause 19

The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971.

The contractor shall also obtain a valid licence under the said Act before the commencement of the work, and continue to have a valid licence until its completion.

The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.

The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986.

The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.

Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.

Clause 19A

No labour below the age of eighteen years shall be employed on the work.

Payment of Wages

Clause 19 B

Payment of Wages

(i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.

(ii) The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him.

(iii) In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the Central Public Works Department contractor's Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorizedly made, maintenance of wage books or wage slips publication of scale of wage and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour(Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable

(iv) (a) The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.

(b) Under the provision of Minimum Wages (Central) Rules, 1950, the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned. In the case of Union Territory of Delhi, however, as the all inclusive minimum daily wages fixed under Notification of the Delhi Administration No.F.12(162)MWO/DAB/ 43884-91, dated 31-12-1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise.

(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.

(vi) The contractor shall indemnify and keep indemnified Government against payments to be made under and for the observance of the laws aforesaid and the C.P.W.D. Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.

(vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.

(viii) Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.

(ix) The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.

Clause 19 C

In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty as decided by the authority mentioned in Schedule F for each default and in addition, the Engineer-in- Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

Clause 19 D

The contractor shall submit by the 4th and 19th of every month, to the Engineer-in-Charge, a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively:-

(1) the number of labourers employed by him on the work,

(2) their working hours,

(3) the wages paid to them,

(4) the accidents that occurred during the said for night showing the circumstances under which they happened and the extent of damage and injury caused by them, and

(5) the number of female workers who have been allowed maternity benefit according to Clause 19F and the amount paid to them.

Failing which the contractor shall be liable to pay to Government, a sum as decided by the authority mentioned in Schedule F for each default or materially incorrect statement. The decision of the Divisional Officer shall be final in deducting from any bill due to the contractor, the amount levied as fine and be binding on the contractor.

Clause 19 E

In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by the Central Public Works Department and its contractors.

Clause 19F

Leave and pay during leave shall be regulated as follows:-

1. Leave :

   (i) in the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks up to and including the day of delivery and 4 weeks following that day,

   (ii) in the case of miscarriage - upto 3 weeks from the date of miscarriage.

2. Pay :

   (i) in the case of delivery - leave pay during maternity leave will be at the rate of the women's average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater.

   (ii) in the case of miscarriage - leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage.

3. Conditions for the grant of Maternity Leave: No maternity leave benefit shall be admissible to a woman unless she has been employed for a total period of not less than six months immediately preceding the date on which she proceeds on leave.

4. The contractor shall maintain a register of Maternity (Benefit) in the Prescribed Form as shown in appendix -I and II, and the same shall be kept at the place of work.

Clause 19G

In the event of the contractor(s) committing a default or breach of any of the provisions of the Central Public Works Department, Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filing any statement under the provisions of the above Regulations and' Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the Government a sum as decided by the authority mentioned in Schedule F for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs.200/- per day for each day of default subject to a maximum of 5 percent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties. Should it appear to the Engineer-in-Charge that the contractor(s) is/are not properly observing and complying with the provisions of the C.P.W.D. Contractor's Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R& A) Central Rules 1971, for the protection of health and sanitary arrangements for work-people employed by the contractor(s) (hereinafter referred as "the said Rules") the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the contractor(s) shall fail within the period specified in the notice to comply with and/ observe the said Rules and to provide the amenities to the work-people as aforesaid, the Engineer-in-Charge shall have the power to provide the amenities hereinbefore mentioned at the cost of the contractor(s). The contractor(s) shall erect, make and maintain at his/ their own expense and as per approved standards all necessary huts and sanitary arrangements required for his/their work-people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said huts and sanitary arrangements be remodelled and/or reconstructed according to approved standards, and if the contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-in-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor(s).

Clause 19H

The contractor(s) shall at his/their own cost provide his/their labour with a sufficient number of huts (hereinafter referred to as the camp) of the following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.

(i) (a) The minimum height of each hut at the eaves level shall be 2.10m (7 ft.) and the floor area to be provided will be at the rate of 2.7 sq.m. (30 sq.ft.) for each member of the worker's family staying with the labourer.

(b) The contractor(s) shall in addition construct suitable cooking places having a minimum area of 1.80m x 1.50m (6'x5') adjacent to the hut for each family.

(c) The contractor(s) shall also construct temporary latrines and urinals for the use of the labourers each on the scale of not less than four per each one hundred of the total strength, separate latrines and urinals being provided for women.

(d) The contractor(s) shall construct sufficient number of bathing and washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.

(ii) (a) All the huts shall have walls of sun-dried or burnt-bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer-in-Charge. In case of sun-dried bricks, the walls should be plastered with mud gobri on both sides. The floor may be kutcha but plastered with mud gobri and shall be at least 15 cm (6") above the surrounding ground. The roofs shall be laid with thatch or any other materials as may be approved by the Engineer-in-Charge and the contractor shall ensure that throughout the period of their occupation, the roofs remain water-tight.

(b) The contractor(s) shall provide each hut with proper ventilation.

(c) All doors, windows, and ventilators shall be provided with suitable leaves for security purposes.

(d) There shall be kept an open space of at least 7.2m (8 yards) between the rows of huts which may be reduced to 6m (20 ft.) according to the availability of site with the approval of the Engineer-in-Charge. Back to back construction will be allowed.

(iii) Water Supply - The contractor(s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than two gallons of pure and wholesome water per head per day for drinking purposes and three gallons of clean water per head per day for bathing and washing purposes. Where piped water supply is available, supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or masonry, shall be provided. The contractor(s) shall also at his/ their own cost make arrangements for laying pipe lines for water supply to his/ their labour camp from the existing mains wherever available, and shall pay all fees and charges therefore.

(iv) The site selected for the camp shall be high ground, with removed from jungle clearances, if required.

(v) Disposal of Excreta - The contractor(s) shall make necessary arrangements for the disposal of excreta from the latrines by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not allowed, the contractor(s) shall make arrangements for the removal of the excreta through the Municipal Committee/authority and inform it about the number of labourers employed so that arrangements may be made by such Committee/authority for the removal of the excreta. All charges on this account shall be borne by the contractor and paid direct by him to the Municipality/authority. The contractor shall provide one sweeper for every eight seats in case of dry system.

(vi) Drainage - The contractor(s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy.

(vii) The contractor(s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers.

(viii) Sanitation - The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.

Clause 19 I

The Engineer-in-Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual houses, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour.

Clause 19 J

It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorized during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy upto 5% of tendered value of work may be imposed by the Superintending Engineer/ Chief Engineer whose decision shall be final both with regard to the justification and quantum and be binding on the contractor. However, the Superintending Engineer/ Chief Engineer, through a notice, may require the contractor to remove the illegal occupation any time on or before construction and delivery.

Clause 19 K

Employment of skilled/semi skilled workers

The contractor shall, at all stages of work, deploy skilled/semi skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/ National Institute of construction Management and Research (NICMAR)/ National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/ certified by State/Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in- Charge. Failure on the part of contractor to obtain approval of Engineer-in Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate specified in schedule 'F' per such tradesman per day. Decision of Engineer in Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding.

Provided always, that the provisions of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crores.

For work costing more than Rs. 10 Crores, and uptoRs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 20% of the unskilled workers engaged in the project in co-ordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi skilled tradesmen.

For work costing more than Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 30% of the unskilled worker engaged in the project in coordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi skilled tradesmen. The cost of such training as stated above shall be born by the Government. The necessary space and workers shall be provided by the contractor and no claim what so ever shall be entertained.

Clause 19 L

Contribution of EPF and ESI

The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis. The verification of deployment labour will be done through biometric attendance system or any other suitable method by the Engineer in Charge. The applicable and eligible amount of EPF & ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order

Clause 20

Minimum Wages Act to be Complied With

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

Clause 21

Work not to be sublet. Action in case of in solvency

The contract shall not be assigned or sublet without the written approval of the Engineer-in-Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employ of Government in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-Charge on behalf of the President of India shall have power to adopt the course specified in Clause 3 hereof in the interest of Government and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensue.

Clause 22

All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of Government without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

Clause 23

Changes in firm's Constitution to be Intimated

Where the contractor is a partnership firm, the previous approval in writing of the Engineer-inCharge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern, such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership

agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21.

Life Cycle cost

Clause 24

The contractor shall be responsible for safety, quality and soundness of the buildings including structural elements beyond maintenance period. The contractor shall have obligation to rectify such defects minimum up to 5 (five) years from the date of completion of work. The defects have to be rectified within a reasonable time not exceeding forty five days after issue of notice by Engineer- in- Charge. If contractor does not take corrective action within 45 days, then action for debarring of the agency shall be taken by the appropriate authority.

Settlement of Disputes by Conciliation and Arbitration

Clause 25

Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used in the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter.

Conciliation: If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawing, record or decision given in writing by the Engineer-in-Charge; or if the Engineer-in-Charge considers any act or decision of the contractor on any matter in connection with or arising out of the contract or carrying out of the work to be unacceptable and disputed; such party may promptly refer such disputes and amount claimed for each dispute to the Conciliator (Special Director General or the Additional Director General concerned with the work, as applicable) in the proforma prescribed in Appendix XVII mentioned in Schedule F, under intimation to the other party. The Conciliator may then request each party to submit to him a brief written statement describing the disputes and the points at issue. Each party shall send a copy of such statement to the other party. At any stage of the conciliation proceedings, the Conciliator may request a party to submit to him such additional information as he deems appropriate. When it appears to the Conciliator that there exist elements of a settlement which may be acceptable to the parties, he shall formulate the terms of a possible settlement and submit them to the parties for their observations. After receiving the observations of the parties, he may re-formulate the terms of a possible settlement in the light of such observations. If the parties reach agreement on a settlement of the disputes, they may draw up and sign a written settlement agreement on non-judicial stamp paper as per Stamp Act. The Conciliator shall authenticate the settlement agreement and furnish a copy thereof to each party. The termination of conciliation proceedings shall be in accordance with Section 76 of The Arbitration and Conciliation Act, 1996. No party shall be represented

before the said Conciliator by an advocate or legal counsel. The conciliation proceedings shall be completed within 45 days from the receipt of reference. This time may be enlarged by 15 days by the Conciliator. The conciliation proceedings shall be deemed to have been terminated at the end of 60 days from the receipt of reference.

Arbitration: If the aforesaid conciliation proceedings fail or the Conciliator fails to give proposal for settlement within the aforesaid period, either party may promptly give notice in the proforma prescribed in Appendix XVIII, under intimation to the other party, to the Chief Engineer or the Superintending Engineer concerned with the work (as applicable), hereinafter referred to as the Arbitrator Appointing Authority as indicated in Schedule F, for appointment of Arbitrator.

However, a party may seek appointment of Arbitrator without taking recourse to the process of conciliation mentioned in sub-clause 25.1 above.

In the event of either party giving a notice to the Arbitrator Appointing Authority for appointment of Arbitrator, the said Authority shall appoint Arbitrator as per the procedure given below and refer such disputes to arbitration.

(a) Number of Arbitrators: If the contract amount is less than Rs.100 crore, the disputes may be referred for adjudication by a sole Arbitrator. If the contract amount is Rs.100 crore or more, the disputes may be referred to an Arbitral Tribunal of three Arbitrators.

(b) Qualification of Arbitrators: It is a term of this contract that each member of the Arbitral Tribunal shall be Graduate Engineer with experience in execution of public works engineering contracts, and he should have worked earlier at a level not lower than the Chief Engineer (equivalent to level of Joint Secretary to the Government of India).

The aforesaid educational qualification and work experience shall be mandatory for appointment as Arbitrator.

The age of Arbitrator at the time of appointment shall not exceed 75 years. An Arbitrator may be appointed notwithstanding the total number of active arbitration cases with him.

(c) Parties to select Arbitrator: Based on the criteria specified above, a list of empanelled Arbitrators has been prepared in CPWD, and the parties shall have option to select an Arbitrator from the list sent to them.

Appointment of Sole Arbitrator: The parties may opt for appointment of the Arbitrator of the Ministry of Housing and Urban Affairs. In such cases, the party seeking arbitration has to submit an express agreement in writing as per Appendix XIX towards waiver of Section 12(5) of the Arbitration and Conciliation Act, 1996 along with the notice for

appointment of Arbitrator in the proforma prescribed in Appendix XVIII, under intimation to the other party. The Arbitrator Appointing Authority shall, within 30 days of receipt of the said notice, appoint Arbitrator of the Ministry of Housing and Urban Affairs as Arbitrator in the matter, provided the other party also submits waiver of Section 12(5), ibid in Appendix XIX within 7 days of the receipt of the said notice.

Where any one of the parties does not opt for the Arbitrator of the Ministry of Housing and Urban Affairs, or does not submit the waiver agreement, the Arbitrator Appointing Authority shall propose five Arbitrators from the list of CPWD Empanelled Arbitrators to the party seeking arbitration under intimation to the other party within 15 days of receiving the notice. The party seeking arbitration shall give his choice for one of them within 15 days of receiving the list, and the Arbitrator Appointing Authority shall appoint the chosen person as the Sole Arbitrator within 15 days of the receipt of choice.

It is a term of this arbitration agreement that if the parties fail to select, within the period prescribed above, an Arbitrator of their choice from the list of CPWD Empanelled Arbitrators forwarded to them, the Arbitrator Appointing Authority shall himself select and appoint Arbitrator from the said list.

Appointment of Arbitral Tribunal of three Arbitrators: The Arbitrator Appointing Authority shall prepare two separate lists of five Arbitrators each from the list of CPWD Empanelled Arbitrators, and send one to the party seeking arbitration and other to the responding party, within 15 days of the receipt of notice. The parties will then choose any one Arbitrator from the list provided to them within 15 days of receipt of the list. The Arbitrator Appointing Authority shall then appoint those chosen by the respective parties as Arbitrators and also a third Arbitrator from the list of CPWD Empanelled Arbitrators to act as presiding Arbitrator, within 15 days of receipt of choice from both the parties.

It is a term of this arbitration agreement that if the parties fail to select, within the period prescribed above, an Arbitrator of their choice from the list of CPWD Empanelled Arbitrators forwarded to them, the Arbitrator Appointing Authority shall himself select and appoint Arbitrator from the said list.

Applicable Law: The provisions of the Arbitration and Conciliation Act, 1996 (Act 26 of 1996) and any further statutory modification or re-enactment thereof shall be applicable. Further, the fast-track procedure for arbitration contained in Section 29B of the said Act shall apply.

Fee payable to Arbitrator(s): The fee payable to the arbitral tribunal shall be as per CPWD OM No.2/2006/SE(TLC)/CSQ/137 dated 19.11.2019 (or latest amendment), and shall be shared equally by both the parties.

Place of Arbitration: The place of arbitration shall preferably be as mentioned in Schedule F. However, the Arbitral Tribunal may decide the place in consultation with both the parties.

Terms of reference: The Arbitral Tribunal shall adjudicate on only such disputes as are referred to it by the Arbitrator Appointing Authority and give separate award against each dispute referred to him and shall give reasons for the award in all cases where the total amount of the claim by any party exceeds Rs.1,00,000.

Interest on Arbitration award: It is also a term of this arbitration agreement that where the Arbitral award against any dispute is for the payment of money, no pre-suit and pendent elite interest shall be payable on any part of the Arbitral award.

Clause 26

Contractor to indemnify Govt. against Patent Rights

The contractor shall fully indemnify and keep indemnified the President of India against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against Government in respect of any such matters as aforesaid, the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the President of India if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.

Clause 27

Lumpsum Provisions in Tender

When the estimate on which a tender is made includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of the work in question is not, in the opinion of the Engineer-inCharge payable of measurement, the Engineer-in-Charge may at his discretion pay the lump-sum amount entered in the estimate, and the certificate in writing of the Engineer-inCharge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of the clause.

Clause 28

Action where no Specifications are Specified

In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications, if not available then as per state District Specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge

Clause 29

Withholding and lien in respect of sum due from contractor

(i) Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the Government shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid,

the Engineer-in-Charge or the Government shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the Government shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge of the Government or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or Government will be kept withheld or retained as such by the Engineer-in-Charge or Government till the claim arising out of or under the contract is determined by the arbitrator(if the contract is governed by the arbitration clause) by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in Chargeor the Government shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise

(ii) Government shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for Government to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Government to the contractor, without any interest thereon whatsoever. Provided that the Government shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Superintending Engineer or Executive Engineer on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Superintending Engineer or the Executive Engineer.

Clause 29A

Lien in respect of claims in other Contracts

Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the Government or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or Government or such other person or

persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer- in-Charge or the Government or with such other person or persons. It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the Government will be kept withheld or retained as such by the Engineer-in-Charge or the Government or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

Clause 29B

Employment of coal mining or controlled area labour not Permissible

The contractor shall not employ coal mining or controlled area labour falling under any category whatsoever on or in connection with the work or recruit labour from area within a radius of 32 km (20 miles) of the controlled area. Subject as above the contractor shall employ imported labour only i.e., deposit imported labour or labour imported by contractors from area, from which import is permitted. Where ceiling price for imported labour has been fixed by State or Regional Labour Committees not more than that ceiling price shall be paid to the labour by the contractor. The contractor shall immediately remove any labourer who may be pointed out by the Engineer in-Charge as being a coal mining or controlled area labourer. Failure to do so shall render the contractor liable to pay to Government a sum calculated at the rate of Rs.10/- per day per labourer. The certificate of the Engineer-in-Charge about the number of coal mining or controlled area labourer and the number of days for which they worked shall be final and binding upon all parties to this contract. It is declared and agreed between the parties that the aforesaid stipulation in this clause is one in which the public are interested within the meaning of the exception in Section 74 of Indian Contract Act, 1872. Explanation:- Controlled Area means the following areas: Districts of Dhanbad, Hazaribagh, Jamtara - a Sub-Division under Santhal Pargana Commissionery, Districts of Bankuara, Birbhum, Burdwan, District of Bilaspur. Any other area which may be declared a Controlled Area by or with the approval of the Central Government.

Clause 30

Water for Works

The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions.

(i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.

(ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in- Charge, unsatisfactory.

Clause 30A

Alternate water Arrangements

The contractor shall be allowed to construct temporary wells in Government land for taking water for construction purposes only after he has got permission of the Engineer-in- Charge in writing. No charges shall be recovered from the contractor on this account, but the contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage

to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work

Clause 31

Hire of Plant & Machinery

The contractor shall arrange at his own expense all tools, plant, machinery and equipment (hereinafter referred to as T&P) required for execution of the work

Clause 32

Employment of Technical Staff and employees

Contractors Superintendence, Supervision, Technical Staff & Employees

(i) The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.

The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. Even of the contractor (or partner(s) in case of firm/ company)is himself / herself an Engineers, it is necessary on the part of the contractor to employ principal technical representative / technical representative (s) as per stipulation in Schedule 'F'.

The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work.

All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s) The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required, to the Engineer-in-Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor. The principal technical representative and other technical representative(s) shall be actually available at site fully during all stages of execution of work, during recording/checking/test checking of measurements of works and whenever so required by the Engineer-in-Charge and

shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements/checked measurements/ test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days.

If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non refundable) shall be effected from the contractor as specified in Schedule 'F' and the decision of the Engineer-In-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) along with every on account bill/ final bill and shall produce evidence if at any time so required by the Engineer-in-Charge.

(ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work.

The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work.

The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.

(iii) For works with estimated cost more than Rs. 10 Crores and stipulated time period more than 6 months :
The contractor shall ensure that at least one deployed technical representative shall be trained in courses related to CPWD specifications, labour laws, safety rules etc. of duration not less than 5 working days either through National CPWD Academy (NCA) or National Institute of Construction Management and Research (NICMAR) or CIDC or any other similar reputed and recognized Institute managed or certified by State/Central Government. The training cost and other cost related to training shall be borne by the contractor. The contractor shall ensure that at least one technical representative is trained within six months of start of work. The time period of six months can be relaxed by the Engineer-in-Charge depending upon the frequency of training course organized by NCA.

If the contractor fails to ensure that at least one technical representative is trained in the above mentioned course till completion of work or one year from start of work, whichever is earlier, then a non-refundable recovery of Rs. 50,000/- shall be made from the bill of the contractor. Decision of Engineer-in-Charge in this regard shall be final and binding on the contractor.

Clause 33

Levy/Taxes payable by Contractor

(i) GST, Building and other Construction Workers Welfare Cess or any other tax, levy or Cess in respect of input for or output by this contract shall be payable by the contractor and Government shall not entertain any claim whatsoever in this respect except as provided under Clause 38.

(ii) The contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone, kankar, etc. from local authorities.

If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the Government of India and does not any time become payable by the contractor to the State Government, Local authorities in respect of any material used by the contractor in the works, then in such a case, it shall be lawful to the Government of India and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the contractor.

Clause 34

Conditions for reimbursement of levy/taxes if levied after receipt of Tenders

(i) All tendered rates shall be inclusive of any tax, levy or cess applicable on last stipulated date of receipt of tender including extension if any. No adjustment i.e. increase or decrease shall be made for any variation in the rate of GST, Building and Other Construction Workers Welfare Cess or any tax, levy or cess applicable on inputs.

However, effect of variation in rates of GST or Building and Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side, increase or decrease.

Provided further that for Building and Other Construction Workers Welfare Cess or any tax (other than GST), levy or cess varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes/ levies/cess.

Provided further that such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under Clause 5 in Schedule F.

(ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Government and/or the Engineer-inCharge and shall also furnish such other information/document as the Engineer-inCharge may require from time to time.

(iii) The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, or variation or repeal of such tax or levy or cess give a written notice thereof to the Engineer-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

Clause 35

Termination of Contract on death of contractor

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer in Charge on behalf of the President of India shall have the option of terminating the contract without levy compensation to the contractor.

Clause 36

If relative working in CPWD then the contractor not allowed to tender

The contractor shall not be permitted to tender for works in the CPWD circle (Division in case of contractors of Horticulture/Nursery categories) responsible for award and execution of contracts in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of the Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any

capacity or are subsequently employed by him and who are near relatives to any Gazetted Officer in the C.P.W.D. or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department. If however the contractor is registered in any other department, he shall be debarred from tendering in CPWD for any breach of this condition.

NOTE: By the term "near relatives" is meant wife, husband, parents and grandparents, children and grand children, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.

Clause 37

No Gazetted Engineer to work as Contractor within one year of retirement

No engineer of gazetted rank or other gazetted officer employed in engineering or administrative duties in an engineering department of the Government of India shall work as a contractor or employee of a contractor for a period of one year after his retirement from government service without the previous permission of Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Government of India as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.

Clause 38

Theoretical consumption of Material

(i) After completion of the work and also at any intermediate stage in the event of Non reconciliation of materials issued theoretical quantity of materialsused in the work shall be calculated on the basis and method given hereunder:-

(a) Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & bitumen required for different items of work as shown in the Schedule of Rates mentioned in Schedule 'F'. In case any item is executed for which standard constants for the consumption of cement or bitumen are not available in the above mentioned schedule/statement or cannot be derived from the same shall be calculated on the basis of standard formula to be laid down by the Engineer-in-Charge.

(b) Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or as authorized by Engineerin-Charge, including authorized lappages, chairs etc. plus 3% wastage due to cutting into pieces, such theoretical quantity being determined and compared with the actual, each diameter wise, section wise and category wise separately.

(c) Theoretical quantity of G.I. & C.I. or other pipes, conduits, wires and cables, pig lead and G.I./M.S. sheets shall be taken as quantity actually required and measured plus 5% for wastage due to cutting into pieces (except in the case of G.I./M.S. sheets it shall be 10%), such determination & comparison being made diameter wise & category wise.

(d) For any other material as per actual requirements. Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule 'F' For non scheduled items, the decision of the Superintending Engineer CE regarding theoretical quantities of materials which should have been actually used, shall be final and binding on the contractor.

(ii) The said action under this clause is without prejudice to the right of the Government to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications.

Clause 39

Compensation during warlike situations

The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Engineer-in-Charge and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation, the contractor shall when ordered (in writing) by the Engineerin-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Engineer-in-Charge, such payments being in addition to compensation upto the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the Divisional Officer uptoRs.2,00,000/-- and by the next higher officer concerned for a higher amount. The contractor shall be paid for the damages/destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the contract. The certificate of the Engineer-in-Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this contract.

Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operations (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. (Air Raid Precaution) Officers or the Engineer-in-Charge (b) for any material etc. not on the site of the work or for any tools, plant, machinery, scaffolding, temporary building and other things not intended for the work. In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Divisional Officer.

Clause 40

Apprentices Act provisions to be complied with

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 Superintending Engineer may, in his discretion, 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.

Clause 41

Release of Security deposit after labour clearance

The Security Deposit of the work shall be refunded if no labour complaint has been received from the labour officer till the due date of its payment. If a labour complaint is received during this period, the Engineer-in-Charge shall, after issue of notice in this regard to the contractor, deduct the amount required to settle the complaint from his security deposit and refund the balance amount.

Note :- In case of any discrepancies between Hindi and English version, English version will prevail.

INTEGRITY PACT

(Integrity Pact is applicable for all works of estimated cost put to tender equal to or more than the threshold value given in Schedule-F)

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

BETWEEN

President of India represented by the Engineer-in-Charge (hereinafter referred to as the Principal, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assignees)

AND

.....

(Name and address of the bidder)

(Hereinafter referred to as the Bidder/Contractor and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assignees)

Preamble

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

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

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

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned hereunder.

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

Articles

Article 1: Commitment of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Principal, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(c) The Principal shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

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

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

2. The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

(a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

(b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

(c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/ Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

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

(e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

(f) Bidder(s) / Contractor(s) who have signed the Integrity Pact shall not approach the courts while representing the matter to IEMs and shall wait for their decision in the matter.

3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice, willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use coercive practices (which shall include the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property) to influence their participation in the tendering process.

Article 3: Consequences of Breach

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

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal. Such exclusion may be forever or for a limited period as decided by the Principal.

2. Forfeiture of Earnest Money Deposit/Performance Guarantee/Security Deposit: If the Principal has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal apart from exercising any legal rights that may have accrued to the Principal, may in its considered opinion forfeit the entire amount of Earnest Money Deposit/Performance Guarantee and Security Deposit of the Bidder/Contractor.

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

Article 4: Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last 3 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the tender process.

2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal.

3. If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal may, at its own discretion, revoke the exclusion prematurely.

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

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement by any of its Subcontractors/sub-vendors.

2. The Principal will enter into pacts on identical terms as this one with all Bidders and Contractors.

3. The Principal will disqualify Bidders who do not submit the duly signed Integrity Pact between the Principal and the Bidder along with the Tender or violate its provisions at any stage of the Tender process.

Article 6- Duration of the Pact

This Integrity Pact begins when both the parties have legally signed it. It expires for the Contractor 12 months after the completion of work under the contract or expiry of defect liability period or last payment made under the contract, whichever is later and for all other bidders, 6 months after the Contract has been awarded. If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this Integrity Pact as specified above, unless it is discharged/determined by the ADG/SDG, CPWD concerned.

Article 7- Other Provisions

1. This Integrity Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarter of the Division of the Principal, who has floated the tender.

2. Changes and supplements as well as termination notice need to be made in writing.

3. If the Contractor is a partnership or a consortium, this Integrity Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Integrity Pact must be signed by a representative duly authorized by board resolution.

4. Should one or several provisions of this Integrity Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.

5. Issues like Warranty/Guarantee etc. shall be outside the purview of IEMs.

6. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Pact, any action taken by the Principal in accordance with this Integrity Pact or interpretation thereof shall not be subject to arbitration.

7. In view of the nature of integrity pact, the Integrity Pact is irrevocable and shall remain valid even if the main tender/contract is terminated till the currency of the integrity pact.

8. If any complaint regarding violation of IP is received directly by the Principal in respect of the contract, the same shall be referred to the IEM for comments/recommendations.

Article 8 –Independent External Monitor (IEM)

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission (Names and address of IEMs are as mentioned in Schedule-F). The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

2. The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all contract documents, whenever required. It will be obligatory for him/her to treat the information and documents of the Bidders / Contractors as confidential.

3. The Bidder(s)/Contractor(s) accepts that the IEM has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor, The Contractor will also grant the IEM, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to sub- contractors.

4. The IEM is under contractual obligation to treat the information and documents of the Bidder{s}/Contractor(s)/ Sub-contractor(s) with confidentiality. The IEM has also signed 'Non-Disclosure of Confidential Information' and 'Absence of Conflict of Interest'. In case if any conflict of interest arising at a later date, the IEM shall inform the Engineer-in-Charge and recuse himself / herself from that case.

5. As soon as the IEM notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The IEM can in this regard submit non-binding recommendations. Beyond this, the IEM has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

6. The IEM will submit a written report to the SDG/ADG concerned within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.

7. If the IEM has reported to the ADG/SDG concerned, a substantiated suspicion of an offence under relevant IPC/PC Act, and the ADG/SDG concerned has, within a reasonable time, not taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the IEM may also transmit this information directly to the Central Vigilance Commissioner.

8. The Principal will provide to the IEM sufficient information about all meetings among the parties related to the project provided such meetings could have impact on contractual relations between the Principal and the contractor. The parties will offer to the IEM the option to participate in such meetings.

9. The word IEM or monitor would include both singular and plural.

Article 9- Legal and Prior Rights

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

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

.....

(For and on behalf of Principal)

.....

(For and on behalf of Bidder/Contractor)

WITNESSES:

1 .....

(signature, name and address)

2 .....

(signature, name and address)

Place:

Dated:

Note: To be signed by the Bidder and the Engineer-in-Charge.

C.P.W.D. SAFETY CODE

1. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than ¼ to 1(¼ horizontal and 1 vertical.)

2. Scaffolding of staging more than 3.6 m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends there of with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.

4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm. (3ft.)

5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11½") for ladder upto and including 3 m. (10 ft.) in length. For longer ladders, this width should be increased at least ¼"for each additional 30 cm. (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit; action or proceedings to any such person or which may, with the consent of the contractor, be paid to compensate any claim by any such person.

6. (a) Excavation and Trenching - All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 ft.) in length or fraction thereof, Ladder shall extend from bottom of the trench to at least 90 cm. (3ft.) above the surface of the ground. The side of the trenches which are 1.5 m. (5ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m. (5ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.

   (b) Safety Measures for digging bore holes:-

      (i) If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse;

      (ii) During drilling, Sign boards should be erected near the site with the address of the drilling contractor and the Engineer in-charge of the work;

(iii) Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50m alround the point of drilling to avoid entry of people;

(iv) After drilling the borewell, a cement platform (0.50m x 0.50m x 1.20m) 0.60m above ground level and 0.60m below ground level should be constructed around the well casing;

(v) After the completion of the borewell, the contractor should cap the bore well properly by welding steel plate, cover the bore well with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while reparing the pump;

(vi) After the borewell is drilled the entire site should be brought to the ground level.

7. Demolition - Before any demolition work is commenced and also during the progress of the work,

(i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.

(ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.

(iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

8. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned:- The following safety equipment shall invariably be provided.

(i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.

(ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.

(iii) Those engaged in welding works shall be provided with welder's protective eyeshields.

(iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.

(v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated atleast for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measure are adhered to :-

(a) Entry for workers into the line shall not be allowed except under supervision of the JE or any other higher officer.

(b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.

(c) Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.

(d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.

(e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.

(f) The area should be barricaded or cordoned of by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.

(g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.

(h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.

(i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge shall decide the time up to which a worker may be allowed to work continuously inside the manhole.

(j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.

(k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.

(l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.

(m) The workers shall be provided with Gumboots or non sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.

(n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.

(o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.

(p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.

(vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken:-

(a) No paint containing lead or lead products shall be used except in the form of paste or ready made paint.

(b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.

(c) Overalls shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.

(vii) Workmen executing work on scaffolds or other structures above specified height shall be provided with full body harness and fall arresters.

9. An additional clause (viii)(i) of Central Public Works Department Safety Code (iv) the Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use :

   (i) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.

   (ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.

   (iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.

   (iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.

   (v) Overall shall be worn by working painters during the whole of working period.

   (vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled13 by painting materials.

   (vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man appointed by competent authority of C.P.W.D PWD(DA).

   (viii) C.P.W.D./PWD (DA) may require, when necessary medical examination of workers.

   (ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.

10. When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.

11. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions :-

   (i) (a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.

   (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.

   (ii) Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.

   (iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.

   (iv) In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Engineer- in-Charge whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.

12. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

13. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.

14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.

15. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer or Engineer-in-Charge of the department or their representatives.

16. Notwithstanding the above clauses from (1) to (15), there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

Model Rules for the Protection of Health and Sanitary Arrangements for Workers Employed by Central P.W.D. or its Contractors

1. APPLICATION

These rules shall apply to all buildings and construction works in charge of Central Public Works Department/ PWD (DA) in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contract work is in progress.

2. DEFINITION

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period during which the contract work is in progress.

3. FIRST-AID FACILITIES

(i) At every work place, there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.

(ii) The first-aid box shall be distinctly marked with a red cross on white back ground and shall contain the following equipment:-

(a) For work places in which the number of contract labour employed does not exceed 50-Each first-aid box shall contain the following equipments :-

1. 6 small sterilised dressings.
2. 3 medium size sterilised dressings.
3. 3 large size sterilised dressings.
4. 3 large sterilised burn dressings.
5. 1 (30 ml.) bottle containing a two per cent alcoholic solution of iodine.
6. 1 (30 ml.) bottle containing salvolatile having the dose and mode of administration indicated on the label.
7. 1 snakebite lancet.
8. 1 (30 gms.) bottle of potassium permanganate crystals.
9. 1 pair scissors.
10. 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institutes, Government of India.
11. 1 bottle containing 100 tablets (each of 5 gms.) of aspirin.
12. Ointment for burns.
13. A bottle of suitable surgical antiseptic solution.

(b) For work places in which the number of contract labour exceed 50.

Each first-aid box shall contain the following equipments.

1. 12 small sterilised dressings.
2. 6 medium size sterilised dressings.
3. 6 large size sterilised dressings.

4. 6 large size sterilised burn dressings.
5. 6 (15 gms.) packets sterilised cotton wool.
6. 1 (60 ml.) bottle containing a two per cent alcoholic solution iodine.
7. 1 (60 ml.) bottle containing salvolatile having the dose and mode of administration indicated on the label.
8. 1 roll of adhesive plaster.
9. 1 snake bite lancet.
10. 1 (30 gms.) bottle of potassium permanganate crystals.
11. 1 pair scissors.
12. 1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institutes /Government of India.
13. A bottle containing 100 tablets (each of 5 gms.) of aspirin.
14. Ointment for burns.
15. A bottle of suitable surgical antiseptic solution.

(iii) Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.

(iv) Nothing except the prescribed contents shall be kept in the First-aid box.

(v) The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.

(vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of contract labour employed is 150 or more.

(vii) In work places where the number of contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works. First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.

(viii) Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

4. DRINKING WATER

(i) In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.

(ii) Where drinking water is obtained from an Intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.

(iii) Every water supply or storage shall be at a distance of not less than 50 feet from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.

(iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

5. WASHING FACILITIES

(i) In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of contract labour employed therein.

(ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.

(iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

6. LATRINES AND URINALS

(i) Latrines shall be provided in every work place on the following scale namely :-

(a) Where female are employed, there shall be at least one latrine for every 25 females.

(b) Where males are employed, there shall be at least one latrine for every 25 males.

Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be upto the first 100, and one for every 50 thereafter.

(ii) Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.

(iii) Construction of latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting nonabsorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system.

(iv) (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women Only" as the case may be.

(b) The notice shall also bear the figure of a man or of a woman, as the case may be.

(v) There shall be at least one urinal for male workers upto 50 and one for female workers upto fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeds 500, it shall be sufficient if there is one urinal for every 50 males or females upto the first 500 and one for every 100 or part thereafter.

(vi) (a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.

(b) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.

(vii) Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.

(viii) Disposal of excreta :- Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm. layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).

(ix) The contractor shall at his own expense, carry out all instructions issued to him by the Engineer-in-Charge to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

7. PROVISION OF SHELTER DURING REST

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 metres (10 ft.) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq.m. (6 sft) per head.

Provided that the Engineer-in-Charge may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

8. CRECHES

(i) At every work place, at which 20 or more women worker are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom. The rooms shall be constructed with specifications as per clause 19H (ii) a,b& c.

(ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.

(iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room.

(iv) The contractor shall provide one ayaa to look after the children in the creche when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.

(v) The use of the rooms earmarked as creches shall be restricted to children, their attendants and mothers of the children.

9. CANTEENS

(i) In every work place where the work regarding the employment of contract labour is likely to continue for six months and where in contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.

(ii) The canteen shall be maintained by the contractor in an efficient manner.

(iii) The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.

(iv) The canteen shall be sufficiently lighted at all times when any person has access to it.

(v) The floor shall be made of smooth and impervious materials and inside walls shall be lime-washed or colour washed at least once in each year.

Provided that the inside walls of the kitchen shall be lime-washed every four months.

(vi) The premises of the canteen shall be maintained in a clean and sanitary condition.

(vii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.

(viii) Suitable arrangements shall be made for the collection and disposal of garbage.

(ix) The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time.

(x) The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square metre (10 sft) per diner to be accommodated as prescribed in sub-Rule 9.

(xi) (a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.

(b) Washing places for women shall be separate and screened to secure privacy.

(xii) Sufficient tables stools, chair or benches shall be available for the number of diners to be accommodated as prescribed in sub-Rule 9.

(xiii) (a) 1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipments necessary for the efficient running of the canteen.

2. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.

(b) 1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.

2. A service counter, if provided, shall have top of smooth and impervious material.

3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipments.

(xiv) The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.

(xv) The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No profit, No loss' and shall be conspicuously displayed in the canteen.

(xvi) In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely:-

(a) The rent of land and building.

(b) The depreciation and maintenance charges for the building and equipments provided for the canteen.

(c) The cost of purchase, repairs and replacement of equipments including furniture, crockery, cutlery and utensils.

(d) The water charges and other charges incurred for lighting and ventilation.

(e) The interest and amounts spent on the provision and maintenance of equipments provided for the canteen.

(xvii) The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

10. ANTI-MALARIAL PRECAUTIONS

The contractor shall at his own expense, conform to all anti-malarial instructions given to him by the Engineer-in-Charge including the filling up of any borrow pits which may have been dug by him.

11. The above rules shall be incorporated in the contracts and in notices inviting tenders and shall form an integral part of the contracts.

12. AMENDMENTS

Government may, from time to time, add to or amend these rules and issue directions - it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof.

C.P.W.D. Contractor's Labour Regulations

1. SHORT TITLE

These regulations may be called the C.P.W.D./PWD (DA) Contractors Labour Regulations.

2. DEFINITIONS

(i) Workman means any person employed by C.P.W.D./PWD (DA) or its contractor directly or indirectly through a subcontractor with or without the knowledge of the Central Public Works Department/PWD (DA) to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied but does not include any person :-

(a) Who is employed mainly in a managerial or administrative capacity : or

(b) Who, being employed in a supervisory capacity draws wages exceeding five hundred rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature: or

(c) Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the principal employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the principal employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the principal employer.

No person below the age of 18 years shall be employed to act as a workman.

(ii) Fair Wages means wages whether for time or piece work fixed and notified under the provisions of the Minimum Wages Act from time to time.

(iii) Contractors shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through contract labour or who supplies contract labour for any work and includes a subcontractor.

(iv) Wages shall have the same meaning as defined in the Payment of Wages Act.

3. (i) Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.

(ii) When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.

(iii) (a) Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.

(b) Where the minimum wages prescribed by the Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.

(c) Where a contractor is permitted by the Engineer-in-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

4. DISPLAY OF NOTICE REGARDING WAGES ETC.

The contractor shall before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain in a clear and legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers giving the minimum rates of wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information as per Appendix 'III'.

5. PAYMENT OF WAGES

(i) The contractor shall fix wage periods in respect of which wages shall be payable.

(ii) No wage period shall exceed one month.

(iii) The wages of every person employed as contract labour in an establishment or by a contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.

(iv) Where the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.

(v) All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.

(vi) Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.

(vii) All wages shall be paid through Bank or ECS or online transfer.

(viii) Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act 1956.

(ix) A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-Charge under acknowledgment.

(x) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour.

(xi) The contractor shall obtain from the Junior Engineer or any other authorised representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form:-

(xii) "Certified that the amount shown in column No ..... has been paid to the workman concerned through bank account of labour on ..... at... "

6. FINES AND DEDUCTIONS WHICH MAY BE MADE FROM WAGES

(i) The wages of a worker shall be paid to him without any deduction of any kind except the following:-

(a) Fines

(b) Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.

(c) Deduction for damage to or loss of goods expressly entrusted to the employed person for custody or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.

(d) Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.

(e) Any other deduction which the Central Government may from time to time allow.

(ii) No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Chief Labour Commissioner.

(iii) Note :- An approved list of Acts and Omissions for which fines can be imposed is enclosed at Appendix-X

(iv) No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.

(v) The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the total wages, payable to him in respect of that wage period.

(vi) No fine imposed on any worker shall be recovered from him by instalment, or after the expiry of sixty days from the date on which it was imposed.

(vii) Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

7. LABOUR RECORDS

(i) The contractor shall maintain a Register of persons employed on work on contract in Form XIII of the CL (R&A) Central Rules 1971 (Appendix IV)

(ii) The contractor shall maintain a Muster Roll register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971 (Appendix V).

(iii) The contractor shall maintain a Wage Register in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971 (Appendix VI).

(iv) Register of accident - The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:

(a) Full particulars of the labourers who met with accident.

(b) Rate of Wages.

(c) Sex

(d) Age

(e) Nature of accident and cause of accident.

(f) Time and date of accident.

(g) Date and time when admitted in Hospital,

(h) Date of discharge from the Hospital.

(i) Period of treatment and result of treatment.

(j) Percentage of loss of earning capacity and disability as assessed by Medical Officer.

(k) Claim required to be paid under Workmen's Compensation Act.

(l) Date of payment of compensation.

(m) Amount paid with details of the person to whom the same was paid.

(n) Authority by whom the compensation was assessed.

(o) Remarks

(v) The contractor shall maintain a Register of Fines in the Form XII of the CL (R&A) Rules 1971 (Appendix-XI)

(vi) The contractor shall display in a good condition and in a conspicuous place of work the approved list of acts and omissions for which fines can be imposed (Appendix-X)

(vii) The contractor shall maintain a Register of deductions for damage or loss in Form XX of the CL (R&A) Rules 1971 (Appendix-XII)

(viii) The contractor shall maintain a Register of Advances in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XIII)

(ix) The contractor shall maintain a Register of Overtime in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XIV)

8. ATTENDANCE CARD-CUM-WAGE SLIP

(i) The contractor shall issue an Attendance card-cum-wage slip to each workman employed by him in the specimen form at (Appendix-VII)

(ii) The card shall be valid for each wage period.

(iii) The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.

(iv) The card shall remain in possession of the worker during the wage period under reference.

(v) The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.

(vi) The contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with himself.

9. EMPLOYMENT CARD

The contractor shall issue an Employment Card in Form XIV of the CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker (Appendix-VIII).

10. SERVICE CERTIFICATE

On termination of employment for any reason whatsoever the contractor shall issue to the workman whose services have been terminated, a Service certificate in Form XV of the CL (R&A) Central Rules 1971 (Appendix-IX)

11. PRESERVATION OF LABOUR RECORDS

All records required to be maintained under Regulations Nos. 6 & 7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-in-Charge or Labour Officer or any other officers authorised by the Ministry of Urban Development in this behalf.

12. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY

The Labour Officer or any person authorised by Central Government on their behalf shall have power to make enquires with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and the Provisions of these Regulations. He shall investigate into any complaint regarding the default made by the contractor or subcontractor in regard to such provision.

13. REPORT OF LABOUR OFFICER

The Labour Officer or other persons authorised as aforesaid shall submit a report of result of his investigation or enquiry to the Executive Engineer concerned indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the contractor under Clause 13 of these regulations, actual payment to labourers will be made by the Executive Engineer after the Superintending Engineer has given his decision on such appeal.

(i) The Executive Engineer shall arrange payments to the labour concerned within 45 days from the receipt of the report form the Labour Officer or the Superintending Engineer as the case may be.

14. APPEAL AGAINST THE DECISION OF LABOUR OFFICER

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorised may appeal against such decision to the Superintending Engineer concerned within 30 days from the date of decision, forwarding simultaneously a copy of his appeal to the Executive Engineer concerned but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

15. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER

(i) A workman shall be entitled to be represented in any investigation or enquiry under these regulations by:-

(a) An officer of a registered trade union of which he is a member.

(b) An officer of a federation of trade unions to which the trade union referred to in clause (a) is affiliated.

(c) Where the employer is not a member of any registered trade union, by an officer of a registered trade union, connected with the industry in which the worker is employed or by any other workman employed in the industry in which the worker is employed.

(ii) An employer shall be entitled to be represented in any investigation or enquiry under these regulations by :-

(a) An officer of an association of employers of which he is a member.

(b) An officer of a federation of associations of employers to which association referred to in clause (a) is affiliated.

(c) Where the employers is not a member of any association of employers, by an officer of association of employer connected with the industry in which the employer is engaged or by any other employer, engaged in the industry in which the employer is engaged.

(iii) No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

16. INSPECTION OF BOOKS AND SLIPS

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Officer or any other person, authorised by the Central Government on his behalf.

17. SUBMISSIONS OF RETURNS

The contractor shall submit periodical returns as may be specified from time to time.

18. AMENDMENTS

The Central Government may from time to time add to or amend the regulations and on any question as to the application/Interpretation or effect of those regulations the decision of the Superintending Engineer concerned shall be final.

ifjf'k"V@ Appendix 'I'

प्रसूति प्रसुविधाओं का रजिस्टर (नियम 19&F)

REGISTER OF MATERNITY BENEFITS (Clause 19 F)

Bsdsnkj dk uke vkSj irk
Name and address of the contractor.....
dk;Z dk uke vkSj fLFkfr
Name and location of the work.....

sdeZpkjh dk uke Name of the employee	firk@ifr dk uke Father's/ husband's name	fu;kstu dk Lo:i Nature of employment	OkkLrfod fu;qfDr dh vof/k Period of actual employment	rjh[k ftl dk çlokoLFk dk lwpuk nh xbZ Date on which notice of confinement given
1	2	3	4	5

तारीख जिसको प्रसूति छुट्टी प्रारम्भ हुई और समाप्त हुई

Date on which maternity leave commenced and ended

çlo@xHkZikr dh rjh[k Date of delivery/ miscarriage	çlo dk n'kk e In case of delivery		xHkZikr dh n'kk esa In case of miscarriage	
	çkjEHk gqvk commenced	lekIr gb Ended	çkjEHk gb Commenced	lekIr gb Ended
6	7	8	9	10

कर्मचारी को दिया गया छुट्टी वेतन

Leave pay paid to the employee

çlo dh n'kk esas In case of delivery		xHkZikr dh n'kk esa In case of miscarriage		fVIif.k;ka Remarks
Nq7h osru dh nj Rate of leave pay	lanUk jde Amount paid	Nq7h osru dh nj Rate of leave pay	lanUk jde Amount paid	
11	12	13	14	15

ifjf'k"V@ Appendix 'II'

केन्द्रीय लोक निर्माण विभाग विभाग कार्यों में ठेकेदार के श्रमिकों को प्रसूति लाभ के बारे में रजिस्टर का नमूना प्रारूप

SPECIMEN FORM OF THE REGISTER, REGARDING MATERNITY BENEFIT ADMISSIBLE TO THE CONTRACTOR'S LABOUR IN CENTRAL PUBLIC WORKS DEPARTMENT WORKS.

Bsdsnkj dk uke vkSj irk

Name and address of the contractor.....

dk;Z dk uke vkSj fLFkfr

Name and location of the work.....

1- L=h dk uke vkSj mlds ifr dk uke
Name of the woman and her husband's name.

2- in uke
Designation.

3- fu;qfDr dh rkjh[k
Date of appointment.

4- ekl vkSj o"kksZ lfgr og rkjh[k ftldks mls fu;qDr fd;k x;k
Date with months and years in which she is employed.

5- lsokUeqDr@inú;qr fd;s tkus dh rkjh[k] ;fn dksbZ gks
Date of discharge/dismissal, if any.

6- xHkZ /kkj.k ds ckcr çek.k i= is'k fd, tkus dh rkjh[k
Date of production of certificates in respect of pregnancy.

7- og rkjh[k ftldks L=h çR;kf'kr çlo ds ckjs esa bfÝkyk nsrh gS
Date on which the woman informs about the expected delivery.

8- çlo@xHkZikr@ e`R;q gksus dh rkjh[k
Date of delivery/miscarriage/death

9- çlo@xHkZikr@laca/kh çek.k i= fd;s tkus dh rkjh[k
Date of production of certificate in respect of delivery/miscarriage.

10- çR;kf'kr çlo ls iwoZ lanÝk çlwfr@e`R;q çlqfo/kk dh jde vkSj mldh rkjh[k
Date with the amount of maternity/death benefit paid in advance of expected delivery.

11- çlwfr çlqfo/kk ds i'pkrorhZ lank; dh jde vkSj mldh rkjh[k
Date with amount of subsequent payment of matemity benefit.

12- L=h ds e`R;q ds ckn mldh çlwfr çlqfo/kk dk lank; çklr djus ds fy, ml L=h }kjk uke funsZf'kr O;fDr dk uke
Name of the person nominated by the woman to receive the payment of the maternity benefit after her death.

13- ;fn efgyk dh e`R;q gks tkrh gS rks mldh e`R;q dh rkjh[k] ml O;fDr dk uke] ftldks çlwfr çlqfo/kk dh jde lanÝk dh xbZ] lank; dh rkjh[k vkSj ekl
If the woman dies, the date of her death, the name of the person to whom maternity benefit amount was paid, the month thereof and the date of payment.

14- jftLVj dh çfof"V;ksa dks vf/kçekf.kr djrs gq, Bsdsnkj ds gLrk{kj
Signature of the contractor authenticating entries in the register.

15- fujh{kd vkfQlj ds mi;ksx ds fy, fVIi.kh LrEHk
Remarks column for the use of Inspecting Officer.

ifjf'k"V@ Appendix 'III'

Jeu cksMZ
Labour Board

dk;Z dk uke----------
Name of work

Bsdsnkj dk uke----------
Name of Contractor

Bsdsnkj dk irk----------
Address of Contractor

ds0 yks0 fu0 foHkkx ds eaMy dk uke o irk----------
Name and address of C.P.W.D. Division

dsñ yksñ funñ foHkkx ds Je vf/kdkjh dk uke ----------
Name of C.P.W.D. Labour Officer

dsñ yksñ funñ foHkkx ds Je vf/kdkjh dk irk----------
Address of C.P.W.D. Labour Officer

Je dkZZlaxu vf/kdkjh dk uke ----------
Name of Labour Enforcement Officer

Je dkZZlaxu vf/kdkjh dk irk ----------
Address of Labour Enforcement Officer

Øe la[;k Sl. No.	J.kh Category	U;qure fu/kkZfjr etnwjh Minimum wage fixed	Hkqxrku dh xbZ okLrfod etnwjh Actual wage paid	orZeku la[;k Number present	fVIi.kh Remarks

lIrkfgd Qqjh ----------
Weekly holiday

etnwjh dh vof/k----------
Wage period

etnwjh ds Hkqxrku dh rkjh----------
Date of payment of wages

dke ds ?kaVs----------
Working hours

vkjke dk e/kqjk----------
Rest interval

QkeZ 13 Form-XIII ¼d`"k fu;e 75 nsf[k;s½ (See Rule 75)

ठेकेदार द्वारा प्रयोग में लाये जाने वाले कर्मचारियों का रजिस्टर Register of Workmen Employed by Contractor

ठेकेदार का नाम व पता.....

Name and address of contractor

ठेकेदार का नाम व पता जिसके अधीन ठेका चल रहा है .....

Name and address of establishment under which contract is carried on

कार्य का स्वरूप व स्थान .....

Nature and location of work

मालिक नियोक्ता का नाम व पता .....

Name and address of Principal Employer

Ø- la[;k Sl. No	etnwj dk uke Name and Surname of workman	vk;q rFkk fyax Age and Sex	firk@ifr dk uke Father's/Husband's name	dk;Z dk Lo:i@ in dk uke Nature of employment/ designation	etnwj dk LFkk;h x`g irk ¼xkao o rglhy rkYyqd vkSj ftyk½ Permanent home address of the workman (Village and Tehsil, Taluk and District)	LFkkuh; irk Local address	ukSdjh vkjEHk gku dh rkjh[k Date of commence-ment of employment	etnwj ds gLr{kj@vxBB dk fu'kku Signature or thumb impression of the workman	ukSdjh ls cj[kkLr djus dh rkjh[k Date of termination of employment	cj[kkLr djus ds dkj.k Reasons for terminations	fVIi.kh Remarks
1	2	3	4	5	6	7	8	9	10	11	12

QkZ 16 Form-XVI ¼d`i;k fu;e 78 ¼2½¼dh½ nsf[kSa½ (See Rule 78(2)(a))

ekLVj jksy Muster Roll

ठेकेदार का नाम व पता----------

Name and address of contractor

कार्यालय का नाम और पता जिसके अधीन ठेका चल रहा है ----------

Name and address of establishment under which contract is carried on

कार्य की प्रकृति व स्थान----------

Nature and location of work

eq[; fu;ksDrk dk uke o ir---------- egrw i{k d fy,----------

Name and address of Principal Employer. For the Month of fortnight

Ø- la[;k Sl. No	etnwj dk uke Name of Workman	fyax Sex	firk@ifr dk uke Father's/Husband's name	fnukad Dates					fVIIlkh Remarks
1	2	3	4	5					6
				1	2	3	4	5	

ifjf'k"V@ Appendix 'V'

QkeZ 17 Form-XVII ¼d`i;k fu;e 78 ¼2½¼d½ ns[ksa½ (See Rule 78(2)(a))

etnjh jftLVj Register of wages

ikBsnkj dk uke o irk----------

Name and address of contractor

dk;kZy; dk uke o irk ftlds v/khu Bsdk py jgk gS ----------

Name and address of establishment under which contract is carried on

dk;Z dk Lo:i o LFkku----------

Nature and location of work

eq[; fu;ksDrk dk uke o irk ---------- etnjh dk vof/k eafld ;k ikf{kd

Name and address of Principal Employer..... wages Period: Monthly/Fortnight

Ø- l[;k Sl. No.	etnwj dk uke Name of workman	etnwjks ds jftLVj esa Øe la[;k Serial No. in the register of workman	fd, x, dk;Z dk Lo:i@ inuke Designation/ nature of work done	ftrusa fnu dk;Z fd;k No. of days worked	fd, x, dk;Z ds ,dd Units of work done	etnwjh dh nj@ihl jsV Daily rate of wages/ piece rate	dh xbZ etnwjh dh jde Amount of wages earned					olyhj ;fn dkbZ gks ¼ykxw dk Lo:i fy[ks Deductions if any (indicate nature)	Hkxrku dh xbZ 'kq+) jkf'k Net amount paid	etnwj d gLrk{kj@ vaxwBs dk fu'ku Signature or thumb impression of the workman	Bdsnkj vFkok mld çfrfuf/k ds gLrk{kj Initial of contractor or his representative
							ewy etnjh Basic wages	egxbZ HkRrk Dearness allowances	le;kfjd HkqxrkZ Overtime	vU; udn Hkqxrku ¼Hkqxrku ds Lo:i fy[ksa Other cash payments (Indicate nature)	dqy Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

ifjf'k"V@Appendix 'VII'

¼Hkkx ;k rjQ@Obverse)

etnwjh dkMZ la[;k / Wage Card No.....

etnwjh dkMZ / Wage Card

Bsdsnkj dk uke o irk..... tkjh djus dh rkjh[k .....

Name and address of contractor — Date of Issue

dk;Z dk uke o LFkku ..... in.....

Name and location of work — Designation

etnwj dk uke..... ekl@i{k.....

Name of workman — Month/Fortnight

etnwjh dh nj.....

Rate of Wages

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
çkr% Morning																														nj Rate	
lk;a Evening																														jde Amount	
gLrk{kj Initial																															

..... l viuh etnjh d..... :i; çkIr fd,

Received from — the sum of Rs. — on account of my wages

;g etnwjh dkMZ tkjh gksus dh rkjh[k ls ,d ekl rd ds fy, oS/k gA

The Wage Card is valid for one month from the date of issue

gLrk{kj Signature.

ifjf'k"V@Appendix 'VII'
¼fiNyh rjQ@Reverse½

प्रपत्र 19/Form-XIX

¼d'l;k fu;e 78¼2½¼[k½ ns[ksa½
[See rule 78 (2)(b)]

मजदूरी पर्ची
Wages Slip

Bsdsnkj dk uke o irk
Name and address of contractor.....

etnwj dk uke rFkk mlds firk@ifr dk uke
Name and Father's/Husband's name of workman.....

dk;Z dk Lo:i rFkk LFkku dk uke
Nature and location of work.....

lIrkg@i{k@ekl ds fy,
For the Week/Fortnight/Month ending.....

1- ftrus fnu dk;Z fd;k
No. of days worked.....

2- fd, x, dk;Z ds ,ddksa dh la[;k ¼ihl jsV etnwjksa ds ckjs esa½
No. of units worked in case of piece rate workers.....

3- nSfud etnwjh dh nj@ihl jsV
Rate of dailly wages/piece rate .....

4- le;ksifj etnwjh dh jde
Amount of overtime wages.....

5- nh tkus okyh dqy jde
Gross wages payable.....

6- olwfy;ka] ;fn dksbZ gks
Deduction, if any.....

7- nh xbZ etnwjh dh 'kq) jde
Net amount of wages paid.....

Bsdsnkj vFkok mlds çfrfuf/k ds gLrk{kj
Initials of the contractor or his representative

प्रपत्र 14 / Form-XIV
(ठेकेदार नियम 76 देखिए)
[See rule 76]

नियोजन कार्ड
Employment Card

Bsdsnkj dk uke o irk
Nameandaddressofcontractor----------

dk;kZy; dk uke o irk ftlds v/khu Bsdk py jgk gS
Name and address of establishment under which contract is carried on----------

dk;Z dk uke o LFkku
Name of work and location of work----------

eq[; fu;ksDrk dk uke o irk
Name and address of Principal Employer----------

1- etnwj dk uke
Name of the workman----------

2- yxk;s x, etnwjksa ds jftLVj esas Øe la[;k
Sl. No. in the register of workman employed----------

3- jkstxkj@in dk uke
Nature of employment/designation----------

4- etnwjh dh nj
(टुकड़े कार्य के मामले में इकाई के विवरण सहित)
Wage rate (with particulars of unit in case of piece work)----------

5- etnwjh dh vof/k
Wage period.....

6- jkstxkj dh vof/k
Tenure ofemployment.....

7- fVIi.kh
Remarks.....

ठेकेदार के हस्ताक्षर
Signature of contractor

Qke 15 Form-XV ¼d`i;k fu;e 77 nsf[kSa½ (See Rule 77)

सेवा प्रमाण-पत्र Service Certificate

Bdnlj dk uke o irk----------

Name and address of contractor

dk;Z dk Lo:i rFkk LFkku----------

Nature and location of work

etnwj dk uke o irk----------

Name and address of workman

vk;q vFkok tUe frfFk----------

Age or date of birth

igpku fpUg ----------

Indentification marks

fuEufr dk uke----------

Father's/Husband's name

dkjZ;s dk uke o irk ftlds v/khu Bsdk py jgk gS----------

Name and address of establishment in under which contract is carried on

eq[; fu;ksDrk dk uke vkSj irk----------

Name and address of Principal Employer

Ø- la[;k Sl. No	jkstxkj dh dqy vof/k Total Period for which employed ls From	rd To	fd, x, dk;Z dk Lo:i Nature of Work Done	etnwjh nj ¼ihl odZ ds ekeysa esa ,dd ds C;ksjksa lfgr½ Rate of wages (with particulars of unit in case of piece work)	fVIi.kh Remarks
1	2	3	4	5	6

gLrk{kj@Signature

LIST OF ACTS AND OMISSONS FOR WHICH FINES CAN BE IMPOSED

ऐसे कार्यों तथा भूलों की सूची जिनके लिए जुर्माने किए जा सकते हैं

dsUnzh; yksd fuekZ.k foHkkx Bsdsnkj Jfed fofu;eks ds fu;e 7 lv ds vuqlkj dk;Z LFky ij vaxzsth rFkk LFkkuh; Hkk"kk nksuksa esa vÚNh rFkk LFkkuh; Hkk"kk nksuksa esa vÚNh çdkj ls çnf'kZZr fd;k tkukA

1- tku cw> dj vdsys ;k vU; ds lkFk fey dj voKk ;k mYya?kuA

2- dsUnzh; yksd fuekZ.k foHkkx ds dk;Z ;k lEifŸk ds vfrfjDr] Bsdkas d laca/k e pksjh ;kks[kkckth] csbZekuh djukA

3- ?kwl ;k vU; xSjdkuwuh ifjrks"k.k ysuk ;k nsukA

4- fuR; nsj ls dke ij vkukA

5- 'kjkc ihdj yM+uk] minzoh ;k cs<axk ;k vU;euLd O;ogkjA

6- fuR; ykijokghA

7- ml {ks=ksa ds vkl&ikl chM+h&flxzsV ihuk tgka vkx idM+us okyh ;k vU; lkexzh j[kh gksA

8- fuR; vuq'kklughurkA

9- pkyw dk;Z esa vFkok ds- yks- fu- fo- ;k Bsdsnkj dh laifŸk dks {kfr igaqpkukA

10- M~;qVh ij lksukA

11- dkepksjh ;k dk;Z dks /khjs djukA

12- uke] vk;q] firk ds uke vkfn ds ckjs esa xyr lwpuk nsukA

13- fu;ksDrk }kjk fn;s x;s etnwjh dkMZ dks fuR; [kks nsukA

14- ekfyd dh mRiknu dh lEifŸk dk vuf/kd`r mi;ksx ;k dk;ZLFky ij vukf/kd`r oLrq,a cukukA

15- dq'ky dkexkjksa }kjk fuekZ.k rFkk vuqj{k.k esa vdq'ky dkjhxjh fn[kkuk ftls foHkkx Lohdkj ugha djrk ftlds la'kks/ku ds fy;s Bsdsnkj dks ck/; fd;k tkrk gSA

16- xyr f'kdk;rsa yxkuk vkSj@;k Hkzked fooj.k nsukA

17- LFkkiukvksa ds ifjlj ds Hkhrj dksbZ O;kikj pykukA

18- deZpkfj;ksa dk vuf/kd`r O;kikj dk;Z djukA

19- LFkkiuk ds ifjlj ds Hkhrj fdlh çdkj dk /ku ,d= djuk ;k mlds fy, çpkj djuk tc rd fd ekfyd }kjk vf/kdkj u fn;k x;k gks A

In accordance with rule 7(v) of the CPWD Contractor's Labour Regulations to be displayed prominently at the site of work both in English and local Language.

1. Wilful insubordination or disobidience, whether alone or in combination with other.
2. Theft fraud or dishonesty in connection with the contractors beside a business or property of CPWD.
3. Taking or giving bribes or any illegal gratifications
4. Habitual late attendance.
5. Drunkenness lighting, riotous or disorderly or indifferent behaviour
6. Habitual negligence.
7. Smoking near or around the area where combustible or other materials are locked
8. Habitual indiscipline.
9. Causing damage to work in the progress or to property of the CPWD or of the contractor.
10. Sleeping on duty.
11. Malingering or slowing down work.
12. Giving of false information regarding name, age father's name, etc.
13. Habitual loss of wage cards supplied by the employers.
14. Unauthorised use of employer's property of manufacturing or making of unauthorised particles at the work place.
15. Bad workmanship in construction and maintenance by skilled workers which is not approved by the Department and for which the contractors are compelled to undertake rectifications.
16. Making false complaints and/or misleading statements.
17. Engaging on trade within the premises of the establishments.
18. Any unauthorised divulgence of business affairs of the employees.
19. Collection or canvassing for the collection of any money within the premises of an establishment unless authorised by the employer.

20- ekfydk dk io vuefr d fcuk ifjlj d Hkhrj cBd cykukA

21- ifjlj ds Hkhrj dk;Z le; ds nkSjku fdlh dkexkj ;k deZpkjh dks Mjkuk ;k /kedkukA

20. Holding meeting inside the premises without previous sanction of the employers.

21. Threatening or intimidating any workman or employer during the working hours within the premises.

QkeZ 12 Form-XII ¼d`i;k fu;e 78¼2½k½ nsjkas½ (See Rule 78(2) (d))

tqekZus dk jftLVj Register of Fines

ठेकेदार का नाम व पता .....

Name and address of contractor

कार्यालय का नाम व पता जिसके अधीन ठेका पर काम हो रहा है .....

Name and address of establishment in under which contract is carreid on

कार्य की प्रकृति व स्थान .....

Nature and location of work

मुख्य नियोजक का नाम व पता .....

Name and address of Principal Employer

Ø- l[;l Sl. No.	etnj dk uke Name of workman	fir@ifr dk uke Father's/ Husband's name	ukSdjh dk Lo:i@ inuke Designation/ nature of employment	og dk;Z@Hkwy ftlds fy, tqekZuk yxk;k x;k Act/Omission for which fine imposed	vijk/k dh rkjh[k Date of Offence	D;k deZdkj us bl tqekZus ds fo#) dksbZ dkj.k crk;k gS Whether workman showed cause against fine	ml O;fDr dk uke ftldh mifLFkfr esa deZpkjh dh O;k[;k lquh xbZ Name of person in whose presence employee's explanation was heard	etnwjh dh vof/k rFkk ns; etnwjh Wage period and wages payable	tqekZuk dh xbZ jkf'k Amount of fine imposed	tqekZuk ftl frfFk dks leklr gqvk Date on which fine realised	fVIi.kh Remarks
1	2	3	4	5	6	7	8	9	10	11	12

QkeZ 20 Form-XX ¼d`i;k fu;e 78¼2½½k½ ns[kasa½ (See Rule 78(2) (d))

{kfr@gkfu ds fy;s dVkSrh dh jftLVj Register of Deduction for Damage or Loss

Bsdsnkj dk uke o irk .....

Name and address of contractor

dk;kZy; dk uke o irk ftlds v/khu Bsdk py jgk gS .....

Name and address of establishment in under which contract is carreid on

dk;Z dk lan o LFkku .....

Nature and location of work

eq[; fu;ksDrk dk uke o irk .....

Name and address of Principal Employer

Ø- l[;k Sl.N.	etnwj dk uke Name of Workman	firk@ifr dk uke Father's/Husbasnd name	ukSdjh dk Lo:i@ inuke Designation/ nature of employment	{kfr vFkok gkfu dk {;ksjk Particulars of damage or loss	{kfr vFkok gkfu dh rkjh[k Date of damage or loss	D;k dedkj u bl dVkSrh ds fo#) dksbZ dkj.k crk;k gS Whether workman showed cause against deduction	ml O;fDr dk uke ftldh mifLFkfr esa deZpkjh dh O;k[;k lquh xbZ name of person in whose presence employee's explanation was heard	ykxbZ xbZ dVkSrh dh jkf'k Amount of deduction imposed	fd'rksa dh la[;k No.of installments	olyl dh frfFk Date of recovery		fVIi.kh Remarking
										izFke fd'r First install-ment	vfre fd'r Last install-ment	
1	2	3	4	5	6	7	8	9	10	11	12	13

QkZ 22 Form-XXII ¼d`i;k fu;e 78¼2½½k½ ns[kks½ (See Rule 78(2) (d))

अग्रिम का रजिस्टर Register of Advances

ठेकेदार का नाम व पता .....

Name and address of contractor

कारखाने का नाम व पता जिसके अधीन ठेका चल रहा है .....

Name and address of establishment in under which contract is carreid on

काम की प्रकृति व स्थान .....

Nature and location of work

मुख्य नियोक्ता का नाम व पता .....

Name and address of Principal Employer

Ø- la[;k St. No.	etnwj dk uke Name of workman	firk@ifr dk uke Father's/ Husband name	ukSdjh dk Lo:i@ inuke Designation/ nature of employment	etnwjh dh vof/k rFkk ns; etnwjh Wage Period and wages payable	fn, x, vfxze dh frfFk rFkk jkf'k Date and amount of advance given	og iz;kstu ftlds fy, vfxze fn;k x;k Purpose(s) for which advance made	fd'rks dh la[;k ftuds }kjk vfxze ykSVk;k tkuk gS Number of installments by which advance to be repaid	ykSVkbZ xbZ izR;sd fd'r dh frfFk rFkk jkf'k Date and amount of each installment repaid	og frfFk tcfd vfUre fd'r ykSVkbZ xbZ Date and which last installment was repaid	fVIi.kh Remarks
1	2	3	4	5	6	7	8	9	10	11

QkeZ 23 Form-XXIII ¼d`i;k fu;e 78¼2½¼ch½ ns[ksa½ (See Rule 78(2) (e))

वेतनोन्नति रजिस्टर Register of Overtime

ठेकेदार का नाम व पता .....

Name and address of contractor

कार्य का नाम व पता जिसके अधीन ठेका पर लगा है .....

Name and address of establishment in under which contract is carreid on

कार्य की प्रकृति व स्थान .....

Nature and location of work

मुख्य नियोक्ता का नाम व पता .....

Name and address of Principal Employer

ø- ¼[;k½ Sl. No.	etnwj dk uke Name of Workman	firk@ifr dk uke Father's/Husband's name	fyax Sex	ukSdjh dk Lo:i@ inuke Designation/ nature of employement	ftu rkjh[kksa dks le;ksifj dk;Z fd;k Date on which Overtime worked	dqy le;ksifj dk;Z vFkok ihl jsV ds ekeys es mRiknu Total overtime worked or production in case of piece rated	etnwjh dh lkekU; nj Normal rate of wages	le;ksifj etnwjh dh nj Overtime rate of wages	le;ksifj dekbZ Overtime earning	ftl nj ij le;ksifj etnwjh nh Rate on which overtime paid	fVIi.kh Remarks
1	2	3	4	5	6	7	8	9	10	11	12

Appendix - XV
(FORM 31)
INDENTURE FOR SECURED ADVANCES
(Referred to in paragraphs 10.2.20 and 10.2.22 of CPW A Code)

(For use in cases in which the contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time)

THIS INDENTURE made the..... day of .....20..... BETWEEN ..... (hereinafter called the Contractor which expression shall where the context so admits or implies be deemed to include his executors administrators and assigns) of the one part and the PRESIDENT OF INDIA (hereinafter called the President which expression shall where the context so admits or implies be deemed to include his successors in office and assigns) of the other part.

WHEREAS by an agreement dated..... (hereinafter called the said agreement) the Contractor has agreed AND WHEREAS the Contractor has applied to the President that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS the President has agreed to advance to the Contractor the sum of Rupees ..... on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account Bill for the said works signed by the Contractor on .....and the President has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works. Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees ..... on or before the execution of these presents paid to the Contractor by the President (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor doth hereby covenant and agree with the President and declare as follows: -

(1) That the said sum of Rupees .....so advanced by the President to the Contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.

(2) That the materials detailed in the said Account of Secured Advances which have been offered to and accepted by the President as security are absolutely the Contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnifies the President against all claims to any materials in respect of which an advance has been made to him as aforesaid.

(3) That the materials detailed in the said Account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Divisional Officer..... Division (hereinafter called the Divisional Officer) and in the term of the said agreement.

(4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid

the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Divisional Officer or any officer authorised by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Divisional Officer.

(5) That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorised by him on that behalf.

(6) That the advances shall be repayable in full when or before the Contractor receives payment from the President of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the President will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.

(7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the President shall immediately on the happening of such default be repayable by the Contractor to the President together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damages and expenses incurred by the President in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the President to repay and pay the same respectively to him accordingly.

(8) That the Contractor hereby charges all the said materials with the repayment to the President of the said sum of Rupees.....and any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the President may at any time thereafter adopt all or any of the following courses as he may deem best :-

(a) Size and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay same to the President on demand.

b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the President under these presents and pay over the surplus (if any) to the Contractor.

(c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.

(9) That except in the event of such default on the part of the Contractor as aforesaid interest on the said advance shall not be payable.

(10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been herein before expressly provided for the same shall be finally resolved as per provisions of clause 25 of the contract.

In witness whereof the said .....and..... by the order and under the direction of the President have hereunto set their respective hands the day and year first above written.

Signed, sealed and delivered by..... the said contractor in the presence of .....

.....

Signature .....

Witness Name .....

Address .....

Signed by.....

by the order and direction of the President in the presence of

Signature .....

Witness Name .....

Address .....

APPENDIX - XVI
(Refer Clause 5)
FORM OF APPLICATION BY THE CONTRACTOR FOR SEEKING EXTENSION OF TIME

1. Name of contractor
2. Name of work as given in the agreement
3. Agreement no
4. Estimated amount put to tender
5. Date of commencement of work as per agreement
6. Period allowed for completion of work as per agreement
7. Date of completion stipulated in agreement
8. Period for which extension of time if has been given by authority in Schedule 'F' previously

letter no. and date	Extension granted	
	Months	Days
(a) 1st extension		
(b) 2nd extension		
(c) 3rd extension		
(d) 4th extension		
(e) Total extension previously given		

9. Reasons for which extension have been previously given (copies of the previous applications should be attached)
10. Period for which extension if applied for
11. Hindrances on account of which extension is applied for with dates on which hindrances occurred and the period for which these are likely to last (for causes under clause 5.2/ and 5.3).

Submitted to the Authority indicated in Schedule F With copy to the Engineer-in-charge and Sub Divisional Officer

Signature of Contractor

Dated .....

APPENDIX - XVII
Reference of disputes and amount claimed for each dispute to the Conciliator.
[Refer to Clause 25]

To,

The ADG/SDG
..... (Region) .....
.....

Subject: Reference of disputes and amount claimed for each dispute to the Conciliator for settlement of disputes relating to agreement number: .....

Dear Sir,

In terms of clause 25 of the aforesaid agreement, particulars of which are given below, I/We hereby refer my / our disputes and amount claimed for each dispute to you for settlement in your capacity as Conciliator.

1. Name of applicant:
2. Whether applicant is Individual/Proprietorship Firm/Partnership Firm/Company:
3. Full address of the applicant:
4. Name of the work and contract number for which arbitration is sought:
5. Name of the Division which entered into contract:
6. Contract amount:
7. Date of contract:
8. Stipulated date of start of work:
9. Stipulated date of completion of work:
10. Actual date of completion of work (if completed):
11. Total number of claims made:
12. Total amount claimed:
13. Date of intimation of final bill (if work is completed):
14. Date of payment of final bill (if work is completed):
15. Amount of final bill (if work is completed):
16. Date of claim made to Engineer-in-Charge:
17. Date of receipt of decision from Engineer-in-Charge:

I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose the statement of claims with amount of each claim.

Yours faithfully,

.....

Signature of the applicant

(Only the person/authority who signed the contract should sign here)

Copy to:

1. The Chief / Superintending Engineer .....
2. The Executive Engineer ....., Division

APPENDIX - XVIII
Notice for appointment of Arbitrator
[Refer to Clause 25]

To,

The Chief Engineer/Superintending Engineer

..... (Zone or Circle) .....

.....

Subject: Notice for appointment of Arbitrator for adjudication of disputes relating to agreement number: .....

Dear Sir,
In terms of clause 25 of the aforesaid agreement, particulars of which are given below, I/We hereby give you notice to appoint an Arbitrator for adjudication of disputes mentioned below.

1. Name of applicant
2. Whether applicant is Individual/Prop. Firm/Partnership Firm/Ltd. Co.
3. Full address of the applicant
4. Name of the work and contract number in which arbitration sought
5. Name of the Division which entered into contract
6. Contract amount in the work
7. Date of contract
8. Date of initiation of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of request made to SDG/ADG for conciliation
17. Date of receipt of SDG/ADG's decision
18. *I/We hereby give consent for appointment of Arbitrator of MoHUA. An agreement as per Appendix-XVIII is enclosed.
    Or
    * I/We do not give consent for appointment of Arbitrator of MoHUA.
    I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose the following documents.
    1. Statement of claims with amount of each claim.
    2. *Agreement of waiver of Section 12(5) of the Arbitration and Conciliation Act, 1996 in Appendix-XIX.
    (*strikeout whichever is not applicable).

Yours faithfully,

.....

Signature of the applicant

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

Copy to:
1. The Executive Engineer
   ..... Division

APPENDIX - XIX
Agreement towards waiver of Section 12(5) of Arbitration & Conciliation Act 1996
[Refer to Clause 25]

1. Whereas certain disputes have arisen between M/S ..... (claimants) and M/S ..... (respondents) relating to agreement No.....

2. And whereas the parties are aware that Shri ..... is on the cadre of CPWD; presently on deputation as Arbitrator, Ministry of Housing and Urban Affairs, Government of India.

3. I/we agree for the appointment of Shri.....as the sole Arbitrator for adjudication of the disputes, and we hereby waive the applicability of Section 12(5) of the Arbitration & Conciliation Act,1996.

Signature

(Only the person/authority who signed the contract should sign here)

Name.....

Date: .....

(The name of the Arbitrator, Ministry of Housing and Urban Affairs, Government of India may be enquired from the Engineer-in-Charge, if required.

On non-judicial stamp paper of minimum Rs. 100

(Guarantee offered by Bank to CPWD in connection with the execution of contracts) Form of Bank Guarantee for Earnest Money Deposit /Performance Guarantee/Security Deposit/Mobilization Advance

1. Whereas the Executive Engineer ..... (name of division) ....., CPWD on behalf of the President of India (hereinafter called "The Government")has invited bids under..... (NIT number)..... dated ..... for ..... (name of work) ..... The Government has further agreed to accept irrevocable Bank Guarantee for Rs. ..... (Rupees ..... only) valid upto ..... (date)*... ..... as Earnest Money Deposit from ..... (name and address of contractor).....(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the Executive Engineer ..... (name of division)....., CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number ..... with .....(name and address of the contractor) ..... (hereinafter called "the Contractor") for execution of work ..... (Name of work) ..... The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. ..... (Rupees ..... only) valid upto ..... (date).....as Performance Guarantee/Security Deposit/Mobilization Advance from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, ... (indicate the name of the bank) ..... (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. ..... (Rupees..... only) on demand by the Government within 10 days of the demand.

3. We, ...(indicate the name of the Bank) ....., do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. ..... (Rupees .....only)

4. We, ... (indicate the name of the Bank) ....., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

5. We, ... (indicate the name of the Bank) ....., further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the

said Contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, ... (indicate the name of the Bank) ....., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

8. We, ... (indicate the name of the Bank)..... , undertake not to revoke this guarantee except with the consent of the Government in writing.

9. This Bank Guarantee shall be valid up to.....unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. ..... (Rupees .....only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date .....

Witnesses:

1. Signature.....
   Name and address

Authorized signatory
Name
Designation
Staff code no.

2. Signature .....
   Name and address

Bank seal

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

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

PROFORMA OF SCHEDULES

(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)

SCHEDULE 'A'

Schedule of quantities (as per PWD-3)

SCHEDULE 'D'

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

SCHEDULE 'E'

Reference to General Conditions of contract

Name of work: .....

.....

Estimated cost of work: Rs. .....

(i) Earnest money: Rs..... (to be returned after receiving performance guarantee)

(ii) Performance Guarantee : 5% of tendered value.

(iii) Security Deposit : 2.5% of tendered value.

SCHEDULE 'F'

GENERAL RULES : & DIRECTIONS — Officer inviting tender .....

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(vi) Engineer-in-Charge .....

2(viii) Accepting Authority .....

2(x)	Percentage on cost of materials and labour to cover all overheads and profits.	15%
2(x)(a)	Standard Schedule of Rates	.....
2(xi)	Department	.....
9(ii)	Standard CPWD contract Form GCC 2020, CPWD Form 7/ 8 as modified & corrected upto	.....

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 thereof from the date of issue of letter of acceptance .....days

(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above .....days

(1 to 15 days to be filled by NIT approving authority)

Clause 2

Authority for fixing compensation under clause 2. .....

Clause 2A

Applicable clause 2/ Clause 2A Yes / No

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start Mile stone(s) as per table given below:-.....day

Sl No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone
1.			
2.			
3.			
4.			

Time allowed for execution of work. .....

Authority to decide:

(i) Extension of time ..... (Engineer in Charge or Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)

(ii) Rescheduling of mile stones ..... (Superintending Engineer/ PM/CPM in Charge or Superintending Engineer/ PM/CPM in Charge of Major Component in case of Composite Contracts, as the case may be)

(iii) Shifting of date of start in case of delay in handing over of site .....(Superintending Engineer/ PM/CPM in Charge or Superintending Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)

PROFORMA OF SCHEDULES 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 6

Computerised Measure Book (CMB) / Electronic Measurement Book (EMB)

(i) Mode of measurement : CMB / EMB

Note:- One option to be kept by NIT approving authority.

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 ₹ .....

Clause 7A

Whether clause 7A shall be applicable yes/No

Clause 8A

Authority to decide compensation on account if contractor fails to submit completion plans .....

Clause 10A

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

1. ..... 2. ..... 3. .....

4. ..... 5. ..... 6. .....

Addition: NIL Correction: NIL Overwriting: NIL Deletion: NIL AE(P) EE(C)

Clause 10B(ii)

WhetherClause10B(ii) shall be applicable Yes/No

Clause 10 C (Applicable in only those contracts where clause 10CC is not applicable) –

Component of labour expressed as percent of value of work: =..... %

Clause 10 CC –Applicable/ Not Applicable (One Option to be kept by NIT approving authority)

A. For construction period

S No.	Relevant component of Material /Labour for price escalation	Percentage of total value of work
1	Cement component	
2	Labour component	
3	Civil Component of other Construction Materials	
4	E&M (Electrical and Mechanical) component of Construction Materials	
5	POL (Diesel) component	
6	Reinforcement steel bars/TMT bars/structural steels (including strands and cables) component	
7	Bitumen component	
	Total	100%

B. For maintenance period

S No.	Relevant component of Material /Labour for price escalation	Percentage of total value of work
1	Labour component	
2	Civil Component of other Construction Materials	
3	E&M (Electrical and Mechanical) component of Construction Materials	
4	Bitumen component (For Road work component)	
	Total	100%

Clause 11

Specifications to be followed for execution of work .....

Clause 12

Authority to decide deviation upto 1.5 time of tendered amount .....

Addition: NIL Correction: NIL Overwriting: NIL Deletion: NIL AE(P) EE(C)

12.2 & 12.3 Deviation Limit beyond which clauses12.2 & 12.3 shall apply for building work .....

12.4

(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) .....

(ii) Deviation Limit for items mentioned in earth work subhead of DSR and related items .....

Clause 16

Competent Authority for deciding reduced rates .....

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site:

1 ..... 2 ..... 3 .....

4 ..... 5 ..... 6 .....

7 ..... 8 ..... 9 .....

Clause 19C.....authority to decide penalty for each default

Clause 19D..... authority to decide penalty for each default

Clause 19G..... authority to decide penalty for each default

Clause 19K..... authority to decide penalty for each default

Clause 25

(i) Conciliator: .....

(ii) Arbitrator Appointing Authority: .....

(iii) Place of Arbitration: .....

Clause 32

Requirement of Technical Representative(s) and recovery Rate

Sl No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Techincal /Techincal representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1.							
2.							
3.							
4							
5							

Addition: NIL Correction: NIL Overwriting: NIL Deletion: NIL AE(P) EE(C)

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 Delhi Schedule of Rates ..... 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

Provision of Independent External Monitors

(i) Threshold value (Estimated cost put to tender) at and above which Integrity Pact would be applicable.....*.....

(ii) Particulars of IEMs appointed by CVC: .....**.....

* This value has been decided as Rs.300 crore.

** The present names and addresses of IEMs are given below.

S. No.	Name of IEM	Address
1	Shri Arvind Kumar Arora (IDSE - Retired) email: arvindarora333@gmail. com	B-333, Chittaranjan Park New Delhi- 110019 Mobile: 8130588577, 9868236340
2	Shri Girraj Prasad Gupta (ICAS - Retired) email: gpgupta1804@gmail. com	E-94 (FF), GK 1, New Delhi- 110048 Mobile: 9868266056
3	Shri Swaminathan Kalyanam (IRSME - Retired) email: swaminathan.kaly@gmail.com	Flat no. 705, Tower One, Ansal Sushant Estate, Sector-52, Gurugram - 122003 Mobile: 9818798389

Annexure showing quantities of materials for areas of surfacing to be considered for working out minimum period of road roller

Sl. No.	Material of surfacing	Quantity or area
1.	Consolidation of earth sub grade	1860 Sq.m
2.	Consolidation of stones soling 15 cm. to 22.5 cm thick	170 Cu.m.
3.	Consolidation of brick soling 10 cm. to 20 cm. thick	230
4.	Consolidation of wearing coat of stone ballast 7.5 cm to 11.5 cm thick	30 Cu.m.
5.	Consolidation of wearing coat of brick ballast 10 cm. thick	60 Cu.m.
6.	Spreading and consolidation of red bajri 6 mm.	1860 Sq.m.
7.	Painting one coat using stone aggregate 12.5 mm nominal size-	
	(a) @ 1.65 m^3 per 100 m^2 and paving bitumen A-90 or S-90 @ 2.25 Kg per m^2	930 Sq.m.
	(b) 1.50 m^3 per 100 m^2 and bitumen emulsion or Road tar @ 2.25 Kg per m^2	930 Sq.m.
8.	Painting two coats using-	
	(a) For first coat, stone aggregate 12.5 mm nominal size:	
	(i) @ 1.50m^3 per 100m^2 with paving bitumen A-90 or S-90 @ 2 Kg per m^2	
	or	
	(ii) @ 1.35m^3 per 100m^2 with bitumen emulsion @ 2 Kg per m^2	
	or	
	(iii) @1.25 m^3 per 100m^2 with road tar @ 2.25 Kg per m^2	600 Sq.m
	(b) For 2nd Coat, stone aggregate 10mm nominal size 0.9 Cum. per 100 Sq.m with-	
	(i) 1kg of paving bitumen A-90 or S-90 or bitumen emulsion per Sq.m.or	
	(ii) 1.25 Kg. of road tar, per Sq.m.	600 Sq.m
9.	Re-painting with stone aggregate 10 mm nominal size 0.9 Cum. per 100 Sqm. with-	
	(a) 1Kg. of paving bitumen A-90 or S-90 per Sqm.or	
	(b) 1.25 kg of Bitumen emulsion per Sqm.	1670 Sq.m.
10.	2 cm premix carpet surfacing using 2.4 m^3 of stone aggregate 10 mm nominal size per 100 m^2 and binder including tack coat, the binder being hot cut back bitumen or bitumen emulsion specified quantities.	930 Sq.m.
11.	2.5 cm. premix carpet surfacing using 3m^3 of stone aggregate 10 mm nominal size per 100 m^2 and binder including tack coat, the binder being hot cut back Bitumenor bitumen emulsion in specified quantities.	930 S q.m.
12.	4 cm thick bitumen concrete surfacing using stone aggregate 3.8 Cu.m. (60% 20 mm nominal size and 40% 12.5 mm nominal size) per 100 m^2 and coarse sand 1.9 Cu.m. per 100 m^2 and hot cut back bitumen over a tack coat of hot cut back bitumen.	460 Sq.m.
13.	4 cm thick bitumen concrete surfacing using stone aggregate 4.8 Cu.m. (60% 25 mm nominal size and 40% 20 mm nominal size) per 100 m^2 and coarse sand 2.4 Cu.m per 100 Sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen	370 Sq.m.
14.	6cm thick bitumen concrete surfacing using stone aggregate 5.8 Cu.m. (60 % 40 mm. nominal size and 40% 25mm nominal size) per 100 Sq.m. and coarse sand 2.9 Cu.m. per100 Sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen. 280 Sq.m	230 Sqm

Sl. No.	Material of surfacing	Quantity or area
15.	7.5 cm thick bitumen concrete surfacing using stone aggregate 7.3 Cu.m. (60% 50mm nominal size and 40% 40 mm nominal size)per 100 Sq.m. and coarse sand 3.65 Cu.m.per 100 Sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen.	750 Sqm
16.	2.5 cm bitumastic sheet using stone aggregate 1.65 Cu.m. (60% 12.5 mm nominal size, 40%10 mm nominal size)per 100 Sq.m. and coarse sand 1.65 Cu.m. per 100 Sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen.	750 Sq.m.
17.	4cm bitumastic sheet, using stone aggregate 2.6 Cu.m. (60%12.5mm nominal size 40%10 mm nominal size) per 100 Sq.m., coarse sand 2.5 Cu.m. per 100 Sq.m. and hot cut back bitumen over a tack coat of hot bitumen.	560 Sqm
18.	Laying full grouted surface using stone aggregate 40 mm nominal size 6.10Cu.m. per 100 Sq.m. with binder, binding with 20mm to 12.5 mm nominal size stone grit. 1.83 Cu.m. per 100 Sq.m. and seal coat of binder and stone grit 10mm nominal size, 1.07Cu.m. per 100 Sq.m., the binder being hot bitumen or tar as specified.	460 Sqm
19.	Laying full grouted surface using stone aggregate 50 mm nominal size 9.14 Cu.m. per 100 sq.m. groutin with binder, with stone grit 20 mm to to 12.5 mm nominal size, 1.83 Cu.m. per 100 Sq.m. and seal coat of binder and stone grit 10mm nominal size 1.07 cu.m /100 Sqm	370 Sqm
20.	4cm. thick premix macadum surfacing using stone aggregate 25mm nominal size 4.57 Cu.m. per 100 Sq.m and hot bitumen binding with stone aggregate 12.5 mm nominal size 1.52 Cu.m.per 100 Sq.m. and seal coat of hot bitumen and stone aggregate 10mm nominal size. 1.07 Cu.m. per 100 Sq.m.	560 Sq.m.
21.	5cm thick premix macadum surfacing with stone aggregate 25 mm nominal size, 6.10 Cu.m. per 100 Sq.m and hot bitumen binding with stone aggregate 12.5 mm nominal size 1.52 Cu.m. per 100 Sq.m. and seal coat of hot bitumen and stone aggregate10mm nominal size 1.07 Cu.m. per 100 Sq.m	460 Sq.m.

Government of India
Ministry of Housing & Urban Affairs
Central Public Works Department
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Price : Rs. 150.00
Delivery/ Forwarding Charges/ Postage/ Freight Charges Extra

A Government of India Publication
Published by
Director General, CPWD, Nirman Bhawan, New Delhi- 110011.

Printed & Marketed by
JAIN BOOK AGENCY (CENTRAL)
4638/21, Ground Floor, Ansari Road, Daryaganj, Opp. Fire Station, New Delhi-110002
Phone : 011-43513570, 44556677 Mob: 9868378448, 8810566260
E-mail : cp@jainbookagency.com, central@jainbookagency.com

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Construction 2023/01

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi Dated: 10.11.2023

Sub: Modification in GCC Construction Works - 2023, Receipt and refund of EMDs online through e-gateway of SBI for e-tendering as pilot cases – reg.

The provision on earnest money deposit (EMD) through e-tendering is modified as under and shall only be applicable for C, E, I, N and Central Secretariat Divisions under ADG (Delhi) as pilot cases with immediate effect:-

Existing Provision	**Modified Provision**
CPWD-EPC CPWD-7/8 GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT Percentage Rate Tender/Item Rate Tender & Contract for Works TENDER I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document. A copy of earnest money deposit *receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be).).* If I/We, fail to	CPWD-EPC CPWD-7/8 GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT Percentage Rate Tender/Item Rate Tender & Contract for Works TENDER I/We have deposited EMD **through online payment mode** for the prescribed amount as per the bid document. **In respect of portion of EMD prescribed in the shape of BG, the scanned copy of original Bank Guarantee including e-Bank Guarantee (as applicable) of any commercial bank having validity for a period of 90 days for single bid and 180 days for two bid systems or more from the last date of receipt of bids (strike out as the case may be), is to be uploaded.** If I/We, fail to.....

This is issued with the approval of DG CPWD.

10.11.2023
(वी. पी.साहू)
अधीक्षण अभियंता (सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2023/ Construction e-file 9134857

के.लो.नि.वि. तथा लो.नि.वि. दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु (के.लो.नि.वि.वेबसाईट के माध्यम से)।

10/11/2023
R.K. JAIN
(EE (Contact)

(1/2)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction-2023/02
ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi **Dated: 14.11.2023**

Subject: Amendments in Clause 32, Schedule F of Clause 11 and 32 of GCC 2023 Construction Works.

The following amendments in Clause 32, Schedule F of Clause 11 and 32 are made in the GCC 2023 for Construction Works.

Existing Provision	Modified Provision
Clause 32 Employment of Technical Staff and employees	**Clause 32 Employment of Technical Staff and employees**
Contractors Superintendence, Supervision, Technical Staff & Employees	Contractors Superintendence, Supervision, Technical Staff & Employees
Sl. No. (i) and (iii)	No change
(iv) No Provision	**(iv) Building Information Model (BIM) professional shall be deployed by the contractor for the projects wherever required as mentioned in Schedule F.** **The BIM professional shall be available for the work as and when required by Engineer-in-Charge.** **The BIM professional will study 3D architectural models, architectural drawings generated from 3D models, service drawings and structural drawings.** **The BIM professional will interact with architects, planning & site engineers to get the clashes removed.** **The recovery shall be made from bill of contractor in case of non-deployment of BIM Professionals/technical staff as mentioned in Schedule 'F' of NIT without giving any notice in writing.** **The decision of Engineer-in-Charge in this respect is final and binding on the contractor.**

R.K. JAIN 14/11/2023
(EE (Contact)

SCHEDULE 'F' **Clause 11** Specifications to be followed for execution of work ..... **No provision**	**SCHEDULE 'F'** **Clause 11** Specifications to be followed for execution of work ..... i. **Building information model (BIM) is applicable and BIM professional to be deployed by contractor ..... (NIT approving authority to write Yes or No)**
SCHEDULE 'F' **Clause 32 Requirement of Technical Representative(s) and recovery Rate** 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. **No Provision**	**SCHEDULE 'F'** **Clause 32 Requirement of Technical Representative(s) and recovery Rate** **No Change.** **No Change.** **Minimum recovery for not deploying Building Information Model (BIM) professional shall be Rs. two lac per month or as mentioned above, whichever is higher.**

This issues with the approval of DG CPWD.

14.11.2023
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17 (1)/2023/Construction e-file 9162768

All CPWD and PWD officers for information and necessary action. (Through CPWD website).

14/11/2023
R.K. JAIN
(EE (Contact)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/03
ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi Dated 06.12.2023

Subject: Modifications in Clause 12 and Schedule F for Clause 12 of GCC 2023 for Construction Works

The following amendments are made in the GCC 2023 Construction Works.

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- (i) to (xv) (xvi) No provision (xvii) No provision	**CONDITIONS OF CONTRACT** **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- (i) to (xv) **No change** **(xvi) Extra items** are those items which are not available in the contract. a. **Non Schedule Extra Items** are those items which are not available in the Standard Schedule of Rates specified in Schedule F. b. **Scheduled Extra Items** are those items which are available in the Standard Schedule of Rates specified in Schedule F. **(xvii) Completion cost: The completion cost includes gross amount of work done, amount of extra items and deviations and escalation admissible as per agreement etc.**
Clause 12 Deviations/ Variations Extent and Pricing The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the	**Clause 12 Deviations/ Variations Extent and Pricing** No Change

R.K. JAIN
(EE (Contact)

progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.	
The completion cost of any agreement for Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration should not exceed 1.25 times of Tendered amount. Any further deviation beyond this limit upto 1.5 times of tendered amount shall be approved by the authority mentioned in schedule 'F' with recorded reason and in exceptional case, ADG shall have full power to approve the deviation beyond 1.50 times of tendered amount with recorded reason and take suitable corrective action.	**Deleted**
No provision	**The completion cost shall, in no case, exceed 1.5 times the contract amount.** **Contractor will devise a system to keep a watch on quantum of work taken up vis-a-vis balance items required to complete defined scope of work and will give the alerts to Engineer-in-Charge before taking up extra items, deviations so that completion cost does not exceed above limit. Work executed beyond above limit will neither be recorded nor be paid.**

06/11/2023
R.K. JAIN
(EE (Contact)

	Engineer-in-Charge will verify and confirm the alerts before assigning deviations and / or extra items to the contractor. If additional work(s) is required to complete defined scope of work beyond above limit then Engineer-in Charge may take up such work(s) separately. The contractor will not have any claims whatsoever on this account.
12.1 The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows : i. In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus ii. 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge	12.1 The time for completion of the works shall, in the event of any deviations **and extra items** resulting in additional cost over the **contract amount will** be extended, if requested by the contractor, as follows : i. In the proportion **to** the additional cost of work, bears to the original **contract amount** plus ii. 25% of the time calculated in (i) above.
12.2 Deviation, Extra Items and Pricing In the case of extra item(s) (items which are not available in the contract), the contractor may within fifteen days of the receipt of order or occurrence of the item(s), submit claim for market rate(s), supported with proper analysis of rate and manufacturer's specification for the work, invoices, vouchers, etc. (as applicable), failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding. Where the contractor submits claim for market rate(s) in the manner prescribed above, the Engineer-in-Charge shall, within 45 days of the receipt of the claims, after giving consideration to the analysis of	**12.2 Deviation, Extra Items and Pricing** **a) Non Schedule Extra Items** - The contractor may, within fifteen days of the receipt of order **to execute extra item** or occurrence of the item(s), submit **analysis of rate of extra item(s) based on the rates of materials available in basic rate of Standard Schedule of Rate mentioned in schedule F and market rates of the materials which are not available in standard schedule of rate mentioned in schedule F. For this purpose, the basic rate of materials available in Schedule of Rates mentioned in Schedule F will be enhanced or reduced by the applicable cost index, as the case**

06/12/2025
R.K. JAIN
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rates and other documents submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.	**may be.** **The rates of the materials which are not available in Standard Schedule of Rates, mentioned in Schedule F, shall be based on, tax paid bills for the material as defined in** manufacturer's specification. **Material rates from Standard Schedules of Rates shall be given priority in the analysis of rates.** **The rate of extra item will be:-** **i. Analyzed rates as above multiplied by (tender amount divided by estimated cost put to tender), if tendered amount is below the estimated amount put to tender.** **ii. Analyzed rate, if the tendered amount is above the estimated amount put to tender.** Failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding. Where the contractor submits **analysis of rate of extra items** in the manner prescribed above, the Engineer-in-Charge shall, within **60** days of the receipt of the **analysis of rate**, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rate(s) **of extra items.** The contractor shall be paid in accordance with the rates so determined. **However provisional rates on the basis of invoice will be allowed by the Engineer-in-Charge. Invoice shall be accepted only for materials not available in the Standard Schedule of Rates mentioned in Schedule F. The extra items rate shall be finalized only after submission of tax paid bills by**

R.K. JAIN
(EE (Contact)

	the contractor to the Engineer-in-Charge as required above. The Engineer-in-Charge may apply the discount available in the market on the rate of materials taken from tax paid bills.
(b) No Provision	**b) Scheduled Extra Items** **i. For percentage rate tenders, the extra item(s) shall be paid as per the Standard Schedule of Rates, mentioned in Schedule F, enhanced or reduced by the applicable cost index and further enhanced or reduced by percentage above/ below quoted by the contractor on estimated cost put to tender.** **ii. For item rate tenders, the extra item(s) shall be paid as per the said schedule rate enhanced or reduced by the applicable cost index and multiplied by (tender amount divided by estimated cost put to tender).**
The rate(s) of extra items so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable.	**Deleted**

06/11/2023
R.K. JAIN
(EE (Contact)

Deviation, deviated quantities, Pricing In the case of contract items which exceed the limit laid down in Schedule F, the contractor may within fifteen days of the receipt of order or occurrence of the excess, claim revision of the rates, supported with proper analysis of rate and invoices, vouchers, etc. (as applicable), for the quantity in excess of the above-mentioned limit. The Engineer-in-Charge shall within 45 days of receipt of the claims, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined. The rate(s) so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable.	**c) Deviation, deviated quantities, Pricing** In the case of contract items which exceed the limit laid down in Schedule F, the contractor may within fifteen days of the receipt of order or occurrence of the excess, claim revision of the rates, supported with proper analysis of rates **and other documents, as per procedure described in para 12.2(a) or 12.2(b)** (as applicable), for the quantities in excess of the above-mentioned limit. The Engineer-in-Charge shall within 45 **60** days of receipt of the claims, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rates and the contractor shall be paid in accordance with the rates so determined. **In case, the contractor fails to submit his claim for revision of rates within 15 days of the receipt of order or occurrence of the excess, the Engineer-in-Charge shall determine the rate(s) of such items in accordance with para 12.2 (a) and 12.2 (b) without giving any notice to the contractor. The rates so determined by the Engineer-in-Charge shall be final and binding.** The rate(s) **of extra items and deviated items** so determined by the Engineer-in-Charge shall be final and binding on the contractor.
12.3 In the case of contract items which exceed the limit laid down in Schedule F, the Engineer-in-Charge shall after giving notice to the contractor within 30 days of submission of that bill by the contractor which contains such item(s), and after taking into consideration any reply received from the contractor within 15 days of the issue of such notice, reduce the rate for quantity in excess of the above-mentioned limit on the basis of market rates, within 30 days of the expiry	**Deleted**

06/11/2025
R.K. JAIN
(EE (Contact)

of the said period of 15 days, and the contractor shall be paid in accordance with the rates so determined. The rate(s) so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable	
12.4 The cost of any operation necessarily ..... admissible for such operations.	12.3 The cost of any operation necessarily ..... admissible for such operations.
12.4 No provision	**12.4 Cost index** **Latest available Cost index at the time of beginning of execution of extra item and deviation shall be used in sub-clauses 12.2 (a), 12.2 (b) and 12.2 (c) for calculation of rates of extra items.**
12.5 No provision	**12.5 Labour rates** **Labour rates will be based on latest available circulars issued by Central Govt. or State Govt. whichever are higher as well as applicable for the work.**
PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders) **SCHEDULE 'F'** **Clause 12** Authority to decide deviation upto 1.5 time of tendered amount	**PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)** **SCHEDULE 'F'** **Clause 12** Deleted
12.2 & 12.3 Deviation Limit beyond which clauses12.2 & 12.3 shall apply for building work	12.2 (c) Deviation Limit beyond which clauses12.2 (c) shall apply for building work .....

06/12/2023
R.K. JAIN
(EE (Co...))

12.4 (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) ..... (ii) Deviation Limit for items mentioned in earth work subhead of DSR and related items	(i) Deviation Limit beyond which clauses 12.2 **(c)** shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items) ..... (ii) Deviation Limit for items mentioned in earth work subhead of DSR and related items .....

This OM is applicable for all NITs issued w.e.f. date of issue of this OM. This issues with the approval of DG CPWD.

06.12.2023

(V.P. Sahu)

Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/Construction/2023 e-file no 9163323
All CPWD and PWD officers for information and necessary action.
(Through CPWD website.

06/12/2023

R.K. JAIN
(EE (Contact)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Construction 2023/04

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi Dated: 08.12.2023

Subject: Modifications in Conditions of Contract, Clause 5 and schedule F in clause 5 of GCC 2023 Construction Works

The following amendments are made in the GCC 2023 for Construction works.

Existing Provision	Modified Provision
CONDITIONS OF CONTRACT **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- (i) to (xvii) (xviii) No provision	**CONDITIONS OF CONTRACT** **Definitions** 2. No change:- (i) to (xvii) No Change **(xviii) Concurrent delay: Concurrent delays are those delays occurring in the work concurrently in any combination or combination of all delay fall under different sub clauses 5.2, 5.3 and 5.5.**
Clause 5 Time and Extension for Delay The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, the performance guarantee shall be forfeited by the Engineer in Charge and shall be absolutely at the disposal of the Government without prejudice to any other right or remedyavailable in law.	**Clause 5 Time and Extension for Delay** The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid **and such default continues even after time period specified in the notice in writing by the Engineer-in-Charge then** the performance guarantee shall be forfeited by the Engineer-in-Charge and shall be absolutely at the disposal of the Government without prejudice to

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	any other right or remedy available in law. **The contract shall stand determined when such decision of forfeiture of the performance guarantee is issued to the contractor.**
5.1 As soon as possible but within 7 (seven) working days of award of work and in consideration of	5.1 **The contractor** as soon as possible but within 7 (seven) days of **issue of letter of** award of work **shall submit a time and progress chart to the Engineer-in-Charge. Such chart shall be made in due** consideration of
a. Schedule of handing over of site asspecified in the Schedule 'F' b. Schedule of issue of designs as specified in the Schedule 'F',	a. Schedule of handing over of site as specified in the Schedule 'F' b. Schedule of issue of design(s) **and drawing(s)** as specified in the Schedule 'F',
i. the Contractor shall submit a Time and Progress Chart for each mile stone. The Engineer-in-Charge may within 7 (seven) working days thereafter, if required modify, and communicate the program approved to the contractor failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in- Charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents.	i. The Contractor shall submit a Time and Progress Chart for each milestone. The Engineer-in-Charge may within 7 (seven) days **of receipt of such chart, make modifications thereafter,** if **any,** and communicate the approved **chart** to the contractor, failing which the **chart** submitted by the contractor shall be deemed to be approved by the Engineer-in- Charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents.
ii. In case of non-submission of construction programme by the contractor, the program approved by the Engineer-in-Charge shall be deemed to be final.	ii. In case of non-submission of **time and progress chart** by the contractor, the **chart prepared by the** Engineer-in- Charge shall be deemed to be final.

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iii. The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.	iii. The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.
iv. The contractor shall submit the Time and Progress Chart and progress report using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery as per Schedule F to be decided by the NIT approving authority shall be made on per week or part basis in case of delay in submission of the monthly progress report	iv. The contractor shall submit the Time and Progress Chart **containing upto date progress of work** using the mutually agreed software or in **the** format decided by Engineer-in-Charge. **Such chart shall be submitted by the contractor on or before 5th day of each month failing which a recovery as mentioned in Schedule 'F' shall be made at the earliest from running account bill without any notice in this regard.**
v. **No provision**	v. **While recording the hindrances in the progress of the work, due consideration should be given to the cause of hindrance. The hindrances shall be segregated in following categories :** **a) delays due to reasons beyond the control of both parties (sub-clause 5.2)** **b) delays attributable to the Department and concurrent delays (sub-clause 5.3).** **c) delays solely attributable to the contractor (sub-clause 5.5)**
5.2 If the work(s) be delayed by:- i. force majeure, or ii. abnormally bad weather, or iii. serious loss or damage by fire, or iv. civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or v. delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in	**5.2 Delays due to reasons beyond the control of both parties:** If the work(s) delayed by:- i. force majeure, or ii. abnormally bad weather, or iii. serious loss or damage by fire, or iv. civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or v. delay on the part of other contractors or tradesmen engaged by Engineer-in- Charge in

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executing work not forming part of the Contract, or vi. any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control	executing work not forming part of the Contract, or vi. any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control.
Then upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works.	Then upon the happening of any such event causing delay, the contractor shall **within 03 (three) days** give **online** notice thereof **through ERP Portal** to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the work(s). **The contractor shall have no claim on account of any hindrance in case notice(s) are not given by the contractor through ERP portal.** **The Engineer-in-Charge, on receipt of such notice(s) after considering the factual ground situation, shall either acknowledge or reject the notice(s)** **In case of rejection, the reason(s) for rejection shall be communicated by Engineer-in-Charge to the agency.** **The decision of Engineer-in-Charge with regard to nature of event causing delay, its start date and end date, as has been finalized during acknowledgement of notice, shall be final and binding.** **The end date of such events shall be recorded by Engineer-in-Charge either during acknowledgment of notice or subsequent to acknowledgement if end date of hindrance is after the date of acknowledgement of notice.** **In absence of notice by the contractor, Engineer-in-Charge or his representative(s) may record the events causing delay within 05 (five)**

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	days of occurrence of hindrance on ERP portal provided further that not recording of events causing delay by the Engineer-in-Charge does not ipso facto entitle the contractor for any hindrance.
The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone/s for events listed in sub clause 5.2.	**No change.**
5.3 In case the work is hindered in the opinion of the contractor, by the Department or for any reason / event, for which the Department is responsible, the authority as indicated in Schedule 'F' shall, if justified, give a fair and reasonable extension of time and reschedule the mile stones for completion of work.	**5.3 Delays attributable to the department** In case the work is hindered, in the opinion of the contractor, by the Department or for any reason / event, for which the Department is responsible, **then upon the happening of such event causing delay, the Contractor shall within 3 (three) days give online notice there of through ERP Portal to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the work.** **The contractor shall not be entitled for any hindrance in case notice(s) are not given by the contractor through ERP portal.** **The Engineer-in-Charge, on receipt of such notice(s) after considering the factual ground situation, shall either acknowledge or reject the notice(s).** **In case of rejection, the reason(s) for rejection shall be communicated by Engineer-in-Charge to the agency.** **The decision of Engineer-in-Charge with regard to nature of event causing delay, its start date and end date, as has been finalized during acknowledgement of notice, shall be final and binding.**

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	The end date of such events shall be recorded by Engineer-in-Charge either during acknowledgment of notice or subsequent to acknowledgement if end date of hindrance is after the date of acknowledgement of notice. **In absence of notice by the contractor, Engineer-in-Charge or his representative(s) may record the events causing delay within 05 (five) days of occurrence of hindrance on ERP portal provided further that not recording of events causing delay by the Engineer-in-Charge does not ipso facto entitle the contractor for any hindrance.**
Such extension of time or rescheduling of milestone/s shall be without prejudice to any other right or remedy of the parties in contract or in law, provided further that for concurrent delays under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2 the contractor shall be entitled to only extension of time and no damages.	Such extension of time or rescheduling of milestone**(s)** shall be without prejudice to any other right or remedy of the parties in contract or in law, provided further that for concurrent delay(s) under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2, the contractor shall be entitled to only extension of time and **shall have** no **claim of** damages.
5.4 Request for rescheduling of Mile stones or extension of time, to be eligible forconsideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed forms i.e. Form of application by the contractor for seeking rescheduling of milestones or Form of application by the contractor for seeking extension of time (Appendix - XVI) respectively to the authority as indicated in Schedule 'F'. The Contractor shall indicate in such a request the period by which rescheduling of milestone/s or extension of time is desired.	5.4 **Rescheduling of milestone(s) and 'extended date of completion'** The request for rescheduling of Milestone(s) **and** extension of time, shall be made by the Contractor **through ERP Portal once in a month on the basis of hindrances accepted by Engineer-in-Charge under sub-clause 5.2 and sub-clause 5.3.** The Contractor shall indicate in such a request **number of days** by which rescheduling of milestone**(s) and/**or extension of time is desired.
With every request for rescheduling of milestones, or if at any time the actual progress of work falls behind the approved programme by more than 10% of the stipulated period of completion of contract, the contractor shall produce a revised programme without causing any delay in execution	**Deleted**

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of the work. A recovery as specified in Schedule 'F' shall be made on per day basis in case of delay in submission of the revised programme.	
No provision	**The authority as indicated in Schedule 'F', after examining the request, shall give a fair and reasonable extension of time for completion of work and simultaneously reschedule the milestone(s), if required so. The authority shall consider all the hindrances accepted as per sub-clauses 5.2, 5.3 and 5.5.** **The authority shall decide rescheduling of milestone(s) and extension of time within 21 (Twenty One) days of the request submitted by the contractor through ERP portal. In event of no request by the contractor for rescheduling of milestone(s) and extension of time, the authority as indicated in Schedule F, after affording opportunity to the contractor, may give fair and reasonable extension of time based on hindrances accepted by Engineer-in-Charge and reschedule the milestone(s) once in a month. Such justified extension of time shall determine the 'extended date' of completion of work.**
5.4.1 In any such case the authority as indicated in Schedule 'F' may give a fair and reasonable extension of time for completion of work or reschedule the mile stones.	5.4.1 **Provided that the end date of any event causing delay shall not fall beyond the date of request for extension of time or rescheduling of milestone(s) by the contractor. In case end date of event falls beyond the date of submission of said request, then period for extension up to date of application shall be considered in the said request for events eligible for consideration and remaining period shall be applied in subsequent request of extension of time or rescheduling of milestone(s).**
E-in-C shall finalize/ reschedule a particular mile stone before taking an	**Engineer-in-Charge** shall finalize/ reschedule a particular mile stone

R.K. JAIN
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action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 21 days of the date of receipt of such request from the Contractor in prescribed form. In event of non-application by the contractor for extension of time E-in-C after affording opportunity to the contractor, may give, supported with a programme (as specified under 5.4 above), a fair and reasonable extension within a reasonable period of occurrence of the event.	before taking an action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 21 **(twenty one)** days of the date of receipt of such request from the Contractor **on ERP Portal.**
5.5 In case the work is delayed by any reasons, in the opinion of the Engineer- in-Charge, by the contractor for reasons beyond the events mentioned in clause 5.2 or clause 5.3 or clause 5.4 and beyond the justified extended date, without prejudice to right to take action under Clause 3, the Engineer-in-Charge may grant extension of time required for completion of work without rescheduling of milestones. The contractor shall be liable for levy of compensation for delay for such extension of time.	5.5 **Delays attributable solely to the contractor** **In case the work is delayed by reasons solely attributable to the contractor, then Engineer-in-Charge or his representative(s) may record the event causing delay within 05 (five) days of occurrence of delay in the ERP portal. Contractor shall take the notice of the same for necessary action. He may submit his version, if any within 05 (Five) days. Engineer-in-Charge, considering the version of the contractor, will take decision on such recording of the event and the decision of the Engineer-in-Charge shall be final and binding.** **The contractor shall be liable for levy of compensation for such delays (i.e. for the period beyond the justified extended date of completion as determined in sub clause 5.4 and this default of contractor shall be dealt in conjunction with clause 2 of the contract.** **In case the work is delayed, due to hindrances attributable solely to the contractor, beyond the justified extended date (as stated in sub clause 5.4), the authority indicated in Schedule 'F', without prejudice to provisions to take action under Clause 3, may grant extension of**

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	time required for completion of work without rescheduling of milestone(s) and extend the date of completion.
PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders) **SCHEDULE 'F'** **Clause 5** **Authority to decide:** i. Extension of time ..... (Engineer in Charge or Engineer in Charge of Major Component in case of Composite Contracts, as the case may be) ii. Rescheduling of mile stones ..... (Superintending Engineer/ PM/CPM in Charge or Superintending Engineer/ PM/CPM in Charge of Major Component in case of Composite Contracts, as the case may be) iii. Shifting of date of start in case of delay in handing over of site ..... (Superintending Engineer/ PM/CPM in Charge or Superintending Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)	**PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)** **SCHEDULE 'F'** **Clause 5** i. **Authority to convey the decision of shifting of milestone and** extension of time ..... (Engineer-in-Charge or Engineer-in-Charge of Major Component in case of Composite Contracts, as the case may be) ii. **Authority to decide rescheduling of milestone and** extension of time ..... (SE/**SE&PD/ CE/ CE&ED).** iii. Shifting of date of start in case of delay in handing over of site ..... (SE/**SE&PD/CE/ CE&ED).**

This OM is applicable for all NITs uploaded after date of issue of this OM.

This is issued with the approval of DG CPWD.

08.12.2023
(वी. पी.साहू)

अधीक्षण अभियंता (सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2023/ Construction e-file 9161772

के.लो.नि.वि. तथा लो.नि.वि. दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु (के.लो.नि.वि.वेबसाईट के माध्यम से)।

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केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Construction 2023/05

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 08.02.2024**

Subject: Modifications in Conditions of Contract and Clause 19 of GCC 2023 for Construction Works

The following amendments are made in the GCC 2023 for Construction Works:

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-	**CONDITIONS OF CONTRACT** **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-
(i) to (xviii)	**(i) to (xviii) No change**
(xix) No provision	**(xix) Adolescent Person: A person who has completed his/her fourteenth year of age but has not completed his eighteenth year.**
(xx) No provision	**(xx) Hazardous works: Hazardous process/works are the works as defined in the clause (cb) of the Factory Act, 1948.**
Clause 19 Labour Laws to be complied by the Contractor	**Clause 19 Labour Laws to be complied by the Contractor**
The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971.	**No change**
The contractor shall also obtain a valid licence under the said Act before the commencement of the work, and continue to have a valid licence until its completion.	**No change**
The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.	**No change**

The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986.	The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986, **amended by Amendment Act No. 35 of 2016 and thereafter time to time.**
The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.	**No change**
Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.	**No change**
Clause 19A No labour below the age of eighteen years shall be employed on the work.	Clause 19A No **person** below the age of **fourteen** years shall be employed on the work. **However Adolescent Persons can be employed on non-hazardous works/process.**
C.P.W.D. Contractor's Labour Regulations **2. DEFINITIONS** i. (c) Who is an out worker, that is to say, person to whom any article or materials are ..... premises under the control and management of the principal employer. No person below the age of 18 years shall be employed to act as a workman.	**C.P.W.D. Contractor's Labour Regulations** **2. DEFINITIONS** i. (c) No change. No person below the age of **fourteen** years shall be employed **on the work. However Adolescent Persons can be employed on non-hazardous works/process.**

This issues with the approval of DG CPWD.

08.02.2024
(वी. पी.साहू)
अधीक्षण अभियंता(सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2023/Construction e-file 9169019

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/06
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD 01.03.2024

NIRMAN BHAWAN, NEW DELHI **Dated: ~~20.02.2024~~**

Subject: Modifications in Conditions of Contract, Clause 19 and 20 of GCC 2023 for Construction Works

The following amendments are made in the GCC 2023 for Construction Works:

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 9. **Signing of Contract:-** The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:- (i) to (iii) No Provision	**CONDITIONS OF CONTRACT** **Definitions** 9. **Signing of Contract:-** The successful tenderer, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:- (i) to (iii) No change **In the event of successful tenderer being a firm/company, then the agreement shall be signed by all the partners or directors thereof individually. In the event of the absence of any partner/director, it shall be signed on his behalf by a person holding a power of attorney (duly notarized by notary public or board resolution in case of company) authorizing him to do so.**
Clause 19 B Payment of Wages (i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.	**Clause 19 B Payment of Wages** **(i)** The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971 **and Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) amended time to time.**

29/02/2024
R.K. JAIN
(EE (Contact

	Thus higher of the wages either notified by Govt. of India, Ministry of Labour and/or that notified by the local administration of the State Govt. both relevant to the place of work and the period of reckoning shall be paid by the contractor to the labourer .
(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.	**(v)** The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) and** ~~or~~ the modifications thereof or any other laws relating thereto and the rules made there under from time to time.
Clause 20 Minimum Wages Act to be Complied With The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.	**Clause 20 Minimum Wages Act to be Complied With** The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii)** amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

This issues with the approval of DG CPWD.

01.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023 e-file no. 9163323

To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)

R.K. JAIN 1/2/2024

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/07
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated:** 01.03.2024

Subject: Modifications in Clause 7 of GCC 2023 for Construction Works

The following amendments is made in the GCC 2023 for Construction Works :

Existing provision	Modified provision
Clause 7 Payment on intermediate certificate to be regarded as Advances No payment shall be made for work, estimated to cost Rs. twenty lacs or less till after the whole of the work shall have been completed and certificate of completion given. ..... fixed for the same by the Engineer-in-Charge.	**Clause 7 Payment on intermediate certificate to be regarded as Advances** No change.
The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved.	The contractor shall not be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved.
No provision	**However, to expedite the progress of work, Engineer-in-Charge, on the request of contractor, may make interim payment(s) even before the net payment limit specified in schedule 'F' is achieved. In such case(s) no interest / compensation shall be recoverable from contractor.** **Such payment by Engineer-in-Charge shall not be construed as waiver of limit specified in schedule 'F' for subsequent interim payment(s).**

01/03/2024
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Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, ... prescribed time limit.	**No Change**

This issues with the approval of DG CPWD.

01.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023/Const. e-file no. 9135972

To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)

01/03/2024
R.K. JAIN
(EE (Contact)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/08
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 05.03.2024**

Subject: Modifications in Clause 19 of GCC 2023 for Construction Works

The following amendments are made in the GCC 2023 for Construction Works:

Existing provision	Modified provision
Clause 19 Labour Laws to be complied by the Contractor	**Clause 19 Labour Laws to be complied by the Contractor**
The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971.	**No change**
The contractor shall also obtain a valid licence under the said Act before the commencement of the work, and continue to have a valid licence until its completion.	**No change**
The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.	**No change**
The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986, amended by Amendment Act No. 35 of 2016 and thereafter time to time.	**No change.**
The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.	**No change**

05/03/2024

R.K. JAIN

(EE (Contact)

No provision Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.	**The contractor shall also comply with the provisions of Sexual Harassment of Women at Workplace (Prevention Prohibition and Redressal) Act, 2013 and amendment thereafter time to time.** Any failure to fulfil these requirements shall attract the penal provisions of **the relevant act and in** this contract
Clause 19 M **No Provision**	**Clause 19 M Sexual Harassment of Women at Workplace** **The contractor shall comply with all provision(s) and guideline(s) of Sexual Harassment of Women at Workplace (Prevention Prohibition and Redressal) Act, 2013 and amendment thereafter time to time or any other rules framed under any labour law affecting women worker(s).**

This issues with the approval of DG CPWD.

05.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023 e-file no. 9163323

To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)

05/03/2024
R.K. JAIN
(EE (Contact)

(1/2)

Central Public Works Department

Office Memorandum

No. DG/CON/Construction 2023/09

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 01.04.2024**

Subject: Modifications in Clause 1, 8 and 41 of GCC 2023 for Construction Works

The following amendments are made in the GCC 2023 for Construction Works:

Existing provision	Modified provision
Clause 1 Performance Guarantee Sl. No. (i) to (iv)	**Clause 1 Performance Guarantee** Sl. No. (i) to (iv) **No Change**
(v) On substantial Completion of any work which has been completed to such an extent that the intended purpose of the work is met and ready to use, then a provisional Completion certificate shall be recorded by the Engineer-in-Charge. The provisional certificate shall have appended with a list of outstanding balance item of work that need to be completed in accordance with the provisions of the contract.	(v) **As per requirement of the client or otherwise specified in the contract, part completion certificate may be issued for the building(s)/ infrastructure project for the part(s) which have been completed in all respect and are ready for use. However, statutory approvals, Completion drawing of various services, wherever required, shall be obtained before handing over of building(s)/ part(s) of the project. Scope of the completed part(s) shall be mentioned in such part completion certificate.**
This provisional completion certificate shall be recorded by the concerned Engineer- incharge with the approval of Superintending Engineer /Project Manager / Chief Engineer/ Chief Project Manager, if required. After recording of the provisional Completion Certificate for the work by the competent authority, the 80 % of performance guarantee shall be returned to the contractor, without any interest.	The **part completion** certificate shall **include** outstanding balance work that need to be completed in accordance with the provisions of the contract. This **part** completion certificate shall be recorded by the **authority as per contract value of work.** After recording of the **part** Completion Certificate for the work by the competent authority, the **proportionate amount of** 80% of performance guarantee shall be returned to the contractor, without any interest.
However in case of contracts involving Maintenance of building and services /any other work after construction of same building and services/ other work, then 40% of performance guarantee shall be returned to the contractor, without any interest after recording the provisional Completion certificate.	However in case of contracts involving Maintenance of building and services /any other work after construction of same building and services/ other work, then **proportionate amount of** 40% of performance guarantee shall be returned to the contractor, without any interest after recording the **part** Completion certificate.

R.K. JAIN 01/04/2024
EE (Contract)

Clause 8 Completion Certificate Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued.	**Clause 8 Completion Certificate** Within ten days of the completion of the work **or on part completion of one or more building(s) out of independent building in a project or infrastructure project, as per requirement of client or otherwise specified in schedule F,** the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and shall furnish the contractor with a **part or** final **completion** certificate **as the case may be,** indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates.
But no final certificate ..... sum actually realized by the sale thereof.	No change.
Clause 41 **Release of Security deposit after labour clearance** The Security Deposit ..... security deposit and refund the balance amount.	**Clause 41** **Release of Security deposit after labour clearance** No change.
No Provision	**In case, if part completion certificate of work is recorded then security deposit shall be released only after recording final completion certificate of the work and after completion of defect liability period whichever is later or specified otherwise in the contract.**

This issues with the approval of DG CPWD.

01.04.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023/Construction e-file 9163323

All CPWD and PWD officers for information and necessary action.(Through CPWD website)

01/04/2024
R.K. JAIN
EE (Contract)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/10
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated:** 03-06-2024

Subject: Modifications in Clause 36 of GCC 2023 for Construction Works

The following amendment is made in the Clause 36 of GCC 2023 for Construction Works:

Existing provision	Modified provision
Clause 36 If relative working in CPWD then the contractor not allowed to tender The contractor shall not be *permitted* to tender for works in the CPWD circle *(Division in case of contractors of Horticulture/Nursery categories)* responsible for award and execution of contracts in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of the *Superintending Engineer* and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working *with him in any capacity* or are subsequently employed by him and who are near relatives to any *Gazetted* Officer in the *C.P.W.D. or in the Ministry of Housing and Urban Affairs.* Any breach of this condition by the contractor would render him liable to be *removed from the approved list of contractors of this Department. If however the contractor is registered in any other department, he shall be debarred from tendering in CPWD for any breach of this condition.*	**Clause 36 If relative working in CPWD then the contractor is not allowed to participate in the tendering process** The contractor **(enlisted or non-enlisted in CPWD)** shall not be **allowed** to **participate in the** tender for work(s) in the CPWD **Zone/**circle **/Division/Sub-Division** responsible for award and**/or** execution of contract**(s)** in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of the **Chief Engineer** and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working or are subsequently employed by him and who are near relatives to any Officer **working** in the **CPWD**. Any breach of this condition by the contractor would render him liable to be **debarred for a period upto two years from tendering in CPWD as decided by the accepting authority mentioned in Schedule F and his decision will be excepted from clause 25.**
NOTE: By the term "near relatives" is meant wife, husband, parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.	No change.

This issues with the approval of DG, CPWD.

03.06.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023/Construction **e-file 9135972**

All CPWD and PWD officers for information and necessary action. (Through CPWD website)

R.K. JAIN
EE (Contract)

Central Public Works Department

Office Memorandum

No. DG/CON/Construction 2023/11

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated:** 03-06-2024

Subject: Additions in 'General Rules and Directions' of GCC 2023 for Construction Works

The following additions are made in GCC 2023 for Construction Works under 'General Rules and Directions':

Existing provision	Modified provision
General Rules and Directions Sl. No. 1 to 16 No Provision	**General Rules and Directions** No Change **17. <u>Price Preference to SC/ST individual contractor for item rate/percentage rate tender</u>:** **Price preference in quoted item rate/percentage rate tender shall be applicable to the individual enlisted/non-enlisted SC/ST contractor as under:-** i. **For work(s) upto and equal to an estimated cost of Rs.2.70 lakh a price preference upto 5% (with reference to the lowest valid tender) may be allowed in favor of individual SC/ST enlisted/non-enlisted contractor. No earnest money is required in such case(s).** ii. **For work(s) beyond an estimated cost of Rs. 2.70 lakh and upto and equal to estimated cost of Rs. 6.20 lakh, the price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual enlisted SC/ST contractor. However, earnest money at a reduced rate of ½% may be accepted in such cases.** iii. **The price preference upto 5% (with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractor. The above concession shall be allowed only after proper verification of the individual contractor's claim of belonging to SC/ST community.**
Schedule F **No Provision**	**Schedule F** **Price Preference to SC/ST individual contractor is valid upto ..... (date)**

This issues with the approval of DG CPWD.

03.06.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023/Construction **e-file 9163323**

All CPWD and PWD officers for information and necessary action.(Through CPWD website)

R.K. JAIN 03/06/2024
EE (Contract)