

Central Power Research Institute

Civil Engineering Division

e-NIT/e-Tender/Agreement

1	Name of the work	A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26. SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL.
2	Estimate cost put to tender	Rs. 39,10,300/-
3	Period of completion	Four Months
4	Schedule of rates	CPWD Delhi Schedule of Rates 2023
5	Specifications	As per CPWD Specifications Vol- 1 & 2 – 2019 and as per nomenclature of items of work.
6	Details of materials to be issued by CPRI	Nil
7	Details of T and P to be hired to the contractor	Nil
8	Earnest Money Deposit	Rs. 78,300/-

Certified that the e-NIT/e-Tender/Agreement contains 44 Pages (Pages Forty Four Only) excluding the covering sheets.

Engineer-in-Charge

Name of Work: A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26. SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL..

Important statement of objects and reasons:

1. Reference to CPWD specifications, CPWD tender/contract forms- 6&8, as well as, those made in this tender document etc., shall be operative only to the extent that they are not inconsistent / inapplicable with any of the terms and conditions contained in this document.
2. The under mentioned changes / substitutions mutatis mutandis shall be applicable to this tender document as well as to the formal agreement that would be concluded in CPWD GCC form-8 of 2020 edition with upto date amendments, wherever references are made as under:

IN THE PLACE OF	SUBSTITUTE
Government / central government:	Central Power Research Institute (CPRI)
Chief Engineer	Director General, CPRI (DG, CPRI)
Superintending Engineer/SE	Chairman, High Power Committee, CPRI, Bangalore (Chairman, HPC)
Division Engineer/Executive Engineer/Engineer-in-Charge	Joint Director, Civil engineering Division, CPRI, Bangalore
Subdivision Officer/SDO /Assistant Engineer/Assistant Executive Engineer	Engineering officer, Civil Engineering division, CPRI, Bangalore
CPWD/Department	Central Power Research Institute (CPRI)

3. Powers / duties vested with certain officers by designation like Chief Engineer, Superintending Engineer, Executive Engineer, Assistant Executive Engineer, Divisional Officer, Sub-divisional Officer, Divisional Accountant, etc., contained in this document shall be exercised and discharged by such of the officers of the institute as may be nominated / authorized / substituted by Director General, CPRI for the purpose of operation of the contract from time to time.
4. In case of any discrepancy / discrepancies noticed between Hindi version and English version in this e-NIT and/ or e-Tender and / or Contract, the English version shall prevail or the English version shall hold good.

PRESS NOTICE TO BE ISSUED FOR PUBLICATION IN NEWS PAPERS

NOTICE INVITING E-TENDERS

(Through e-tendering only)

The Engineer-in-Charge, Civil Engineering Division, CPRI, Bangalore invites on behalf of Director General, CPRI, Bangalore online item rate e-tenders for following work:-

e-NIT No. 01/2025-26

Name of Work: A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26.

SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL.

1.	Estimated cost:	Rs. 39,10,300/-
2.	Earnest money:	Rs.78,300/-
3.	E-tender processing fee:	Rs.3,910/-+ 18% GST or Rs.4,615/-
4.	Tender fee:	Nil
5.	Time of completion :	Four months from the fifth date after issue of letter of acceptance of tender or from the date of handing over the site whichever is later.

The e-tender forms / documents and other details can be downloaded from the website: www.tenderwizard.com/CPRI. The last date for submission of online e-tenders is up to **10/06/2025**. Interested and eligible bidders must obtain User ID and password by registering in the above mentioned website. For more details contact e-tender help desk: 080-40482000, 9686196764, 9686115318. Email ID of the Engineer-in-Charge: ksuryanarayana@cpri.in

CENTRAL POWER RESEARCH INSTITUTE
CIVIL ENGINEERING DIVISION
Bengaluru

Notice Inviting Tender through e-tendering only

The Engineer-in-Charge, Civil Engineering Division, Central Power Research Institute (CPRI), Bangalore on behalf of Director General, CPRI invites online item rate e-tenders from approved and eligible contractors of CPWD and those of appropriate list of MES, Railways, State PWD (B & R), or State Government for the following work.

Sl.no.	NIT no.	Name of the work & location	Estimate cost put to tender (in Rs.)	Earnest money (in Rs.)	E-Tender processing fee	Time of completion	Last date & time of submission of online bid	Last date & time for submission of EMD, e-tender processing fee and other stipulated documents	Date and time of opening of technical bid	Date & time of opening of online bid
1	2	3	4	5	6	7	8	9	10	11
01	01/2025-26	A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26. SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL.	Rs.39,10,300/-	Rs.78,300/-	Rs. 4,615/- inclusive of GST	Four months	<u>10/06/2025</u> upto 3.00 PM	<u>10/06/2025</u> . upto 3.00 PM	<u>10/06/2025</u> at 4.00 PM	<u>17/06/2025</u> at 3.30 PM

1. Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.

(a) Should have satisfactorily completed work/ works as mentioned below during the last seven years ending on 31.01.2025.

(i) Three similar works each of value not less than Rs.15.64 lakhs or two similar works, each of value not less than Rs.23.46 lakhs or one similar work of value not less than Rs.31.28 lakhs in the last 7 years ending on 31.01.2025.

Similar work means “Civil Works”. The similar work/s shall be with some Central/ State Government/ Central autonomous / Central Public Sector undertaking / State Public Sector undertaking. The contractor shall submit work completion certificate signed by an officer not

less than the rank of Executive Engineer or above for the work carried out with Government Sector Organizations. The value of executed works shall be brought to current costing level by enhancing actual value of work at simple rate of 7% per annum; calculated from the date of completion to the last date of receipt of application for bids. In case the work completed certificate is from those other than Government sector organizations, it shall be supported by relevant IT returns for the said work. In case of agencies who have been earlier awarded works at CPRI & if the works are in progress and not completed, then the work order amount of such work shall be reduced from the work completion certificate, if same certificate had been produced for the earlier awarded work.

2. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and if he is in possession of all the documents required.

3. Information and instructions for bidders posted on 'www.tenderwizard.com/CPRI' website shall form as part and parcel of the bid document.

4. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website: www.tenderwizard.com/CPRI free of cost.

5. But the bid can only be submitted after depositing the original EMD and E-Tender processing fee, uploading the mandatory scanned documents such as Banker's cheque/ Online transaction acknowledgement / Demand Draft drawn from any scheduled bank guaranteed by Reserve Bank of India, towards cost of EMD in favour of 'Accounts Officer, CPRI, Bangalore', and e-tendering processing fee in favour of KSEDCL payable at Bangalore. Earnest Money shall be in the form of Demand Draft / Banker's Cheque / FDR issued by any scheduled bank guaranteed by Reserve Bank of India, drawn in favour of the 'Accounts Officer, CPRI, Bangalore'. FDR shall be pledged in favour of the 'Director General, CPRI, Bangalore'. **For consideration of tender, the original earnest money deposit and tender processing fee and attested copies of valid registration certificate as contractor and relevant work experience certificates and registration with GST should be handed over in the office of the undersigned on or before date and time as mentioned in column 9 of the table. In case the bidder fails to deposit the original Earnest Money Deposit and Tender Processing Fee, in case of payment mode other than 'online payment', such bidder shall stand disqualified.**

6. The contractors who are not registered for e-tendering on the website mentioned are required to get prior registration with KEONICS, 1st floor, 59 Railway Parallel Road, 4th Block Kumarapark West, Sheshadripuram, Bangalore –560 020, after fulfilling due procedural formalities, including making payment of the requisite registration fee of Rs. 2,360/- in the form of Demand Draft in favour of KSEDCL payable at Bangalore.

If needed, bidders can be imparted training on online bidding process as per details available on the website.

7. One of the pre-requisites for participation in e-tendering is obtaining a valid Class III Digital Signature Certificate from one of the Digital Signature Certifying authorities such as NIC, MTNL, e-Mudhra, TCS, Safescrypt, GNFC etc., preferably through KEONICS.
8. On opening date, the contractors can login and can witness the bids opening process. Sequel to the opening of bids at the appointed date & time, the tenderers would automatically receive competitor- bid- sheets, giving them a clear picture as to where they stand in the competition.
9. Contractors can upload documents in the form of JPG format and/ PDF format.
10. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells, a warning appears that if any cell is left blank the same shall be treated as “0”. Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as “0” (ZERO). Further, if a tenderer quotes nil rates against each item in tem rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer. Such tenderer shall be disqualified from bidding for any contract with CPRI for a period of one year from the date of the subject tender notification.
11. The bidder shall furnish an affidavit on non-judicial stamp paper of appropriate value duly attested by a notary 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, then I/We shall be debarred from tendering in CPRI 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 Performance Guarantee furnished by me/us.
12. The competent authority reserves the right to accept or reject any or all tenders, without assigning any reason thereof.

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

1. Demand Draft/Banker's Cheque/FDR issued by any of scheduled banks guaranteed by Reserve Bank of India, drawn in favour of the 'Accounts Officer, CPRI, Bangalore' against EMD or proof of online payment via tender wizard.
2. Demand Draft towards cost of e-tendering processing fee payable in the form of banker's cheque or DD in favor of 'KSEDCL' payable at Bangalore or proof of online payment via tender wizard.
3. Certificates of Work experience.
4. Affidavit as per provisions of clause 1.2.2 of e CPWD- 6
5. Certificate of Registration with Goods and Service Tax department for GST tax payment etc.

Sd/-
Engineer-in-Charge,
Civil Engineering Division, CPRI,
Bengaluru

Central Power Research Institute
Bengaluru
(CPWD form-6 for e-Tendering)

Item rate e-tenders are invited on behalf of Director General, Central Power Research Institute from approved and eligible contractors of CPWD and those of appropriate list of MES, Railways, State PWD (B & R), or State Government for the work of **A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26. SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL.**

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

1.1 The work is estimated to cost Rs.39,10,300/- This estimate, however, is given merely as a rough guide.

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

1.2.1 Criteria of eligibility for submission of bid documents:

Three similar works each of value not less than Rs.15.64 lakhs or two similar works, each of value not less than Rs.23.46 lakhs or one similar work of value not less than Rs.31.28 lakhs in the last 7 years ending on 31.01.2025.

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.

1.2.2 To become eligible for issue of bid, the bidder shall have to furnish an affidavit on a non-judicial stamp paper of worth Rs.100/- attested by a notary 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, then I/We shall be debarred from tendering in CPRI 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 Performance Guarantee furnished by me/us. I/We also confirm that none of the contracts executed by me/us in the past have been rescinded / terminated by any of client department and I/we have not been black listed by any department.

2. Agreement shall be drawn with the successful bidder on prescribed CPWD GCC form-8 of 2023 incorporating amendments upto Circular bearing No. DG/CON-Maintanance/2023 dated 29.10.2024, which is available as a Govt. of India Publication including amendment no. DG/CON-Maintanance/2023 dated 29.10.2024. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be **Four month(s)** from the date of start as

defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

4. The site for the work is available.

Architectural drawings for the major work is available. The structural drawing and other details shall be issued along with the Letter of Commencement. The Engineer-in-charge shall be empowered to modify the drawing / design during the course of work as per site requirements and the agency to whom the work is awarded shall execute the works in accordance with the modifications. The modifications of drawing / design during the course of work shall not amount to changed circumstances. The agency shall be paid in accordance with the agreement rates only and shall not have any claim for revised rates under any circumstances.

5. The bid document consisting of plans, specifications, the schedule of quantities of the various types of items to be executed and the set of terms and conditions of contract to be complied with and other necessary documents, except standard general conditions of contract form can be seen on website www.tenderwizard.com/CPRI, free of cost. General Conditions of Contract 2023 Maintenance Works is available as a standard document on CPWD website which has free access for everyone. Hence GCC document is not printed along with the e-NIT. However, the applicable GCC (with relevancy of conditions indicated in clear terms) shall form part of the agreement.

6. After submission of bid, the contractor can resubmit 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 items 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. (i) Earnest money of Rs. 78,300/- in the form of fixed deposit receipt of a scheduled bank/demand draft of a scheduled bank issued in favour of 'Accounts Officer, CPRI, Bangalore, shall be scanned and uploaded to the e-tendering website within the period of bid submission and original should be deposited in the office of Engineer-in-Charge, Civil Engineering Division.

(ii) Interested contractor who wishes to participate in the bid has to make following payment in the form of Demand Draft or Banker's cheque of any scheduled bank and to be scanned and uploaded to the e-tendering website within the period of bid submission.

E-Tender processing fee: Rs. 4,615/- inclusive of GST drawn in favour of 'KSEDCL' payable at Bengaluru.

The payment towards e- tender processing fee can also be made online through tender wizard.

(iii) Demand Draft or Banker's cheque against EMD shall be placed in single sealed envelope superscripted as "Earnest Money Deposit" with name of the work and due date of opening of the bid also mentioned thereon.

(iv) Copy of Enlistment Order and certificates of work experience and other documents as specified in the press notice shall be attested, scanned and uploaded to the e-tendering website

within the period of bid submission and certified copy of each shall be deposited in a separate envelope as “Other documents”.

(v) Both the envelopes shall be placed in another envelope with due mention of name of work, date and time of opening of bids and to be submitted in the office of Engineer-in-Charge Civil Engineering Division after last date and time of submission of bid and up to 3.00 PM

Of **10/06/2025**. The documents submitted shall be opened at 4.00 PM of **10/06/2025**.

(vi) Online bid documents submitted by intending bidders shall be opened only of those bidders, whose EMD and e-Tender Processing Fee and other documents placed in the envelope are found in order. The bid submitted shall be opened at 3.30 PM of **17/06/2025**. e-Tender processing fee paid is non-refundable.

(vii) The bid submitted shall become invalid if:

- a) The bidder is found ineligible.
- b) The bidder does not upload all the documents as stipulated in the bid document.
- c) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically in the office of Engineer-in-Charge, Civil Engineering Division.
- d) If the bidder fails to deposit the Earnest Money Deposit in the form of original DD or FDR and Tender Processing Fee in case if payment mode other than ‘online payment’ on the prescribed date, such bidder shall stand disqualified.

9. The contractor, whose bid is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of Banker’s cheque of any scheduled bank/Demand Draft of any scheduled bank/Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. The Performance Guarantee shall be initially valid upto the stipulated date of completion plus sixty days beyond that. 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 contractor shall be disqualified from bidding for any contract with CPRI for a period of one year from the date of the subject tender notification.

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 and programme chart (time and progress with the period specified in schedule F.

10. The description of the work is as follows: A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26. SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL. The details of work to be executed are briefly described in the additional terms, conditions and specifications of the e-NIT.

11. Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A Bidder shall be deemed to have full knowledge of the site whether he inspects it or

not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by CPRI and local conditions and other factors having a bearing on the execution of the work.

12. The competent authority on behalf of the Director General, Central Power Research Institute, Bengaluru does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received, without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the Bidder shall be summarily rejected.

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

14. The competent authority on behalf of the Director General, Central Power Research Institute, Bangalore reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted. The rates quoted for each item of work under the tender, which is accepted, shall be firm and hold good for the entire period of contract or the extended period, i.e., the accepted rates shall not be liable to be changed under any circumstances.

15. The contractor shall not be permitted to bid for works in CPRI responsible for award and execution of contracts, in which his near relative is posted as an officer in any capacity as Engineering or Scientific Officer at the headquarters or at Units of CPRI which is responsible for award and execution of the contract. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Officer in CPRI. Any breach of this condition by the contractor would render him liable to be debarred from tendering in CPRI in future, forever.

16. No officer of the rank of Engineering Officer Gr.1 or above working in any capacity in CPRI shall be allowed to work as a contractor for a period of one year after his retirement from CPRI service, without the previous permission of competent authority in CPRI, in writing. This contract is liable to be cancelled, in case of contravention of this provision either by the contractor, or any of his employees.

17. The bid for the work shall remain open for acceptance for a period of sixty days (60 days) from the date of opening of technical bids. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the CPRI/ department, then the bidder shall not be allowed to participate in the re-bidding process of the work. Further, bidder shall be disqualified from bidding for any contract with CPRI for a period of one year from the

date of the subject tender notification.

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

- a) The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bids and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- b) Standard C.P.W.D. GCC Form 8: CPWD GCC form-8 of 2023 incorporating amendments upto Circular bearing No. DG/CON-Maintanance/2023 dated 29.10.2024, which is available as a Govt. of India Publication including amendment no. DG/CON-Maintanance/2023 dated 29.10.2024.

CENTRAL POWER RESEARCH INSTITUTE

Item Rate E-Tender & Contract for Works

(A) E-Tender for the work of: **A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26. SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL.**

(i) To be submitted online by 3.00 PM of **10/06/2025** to Engineer-in-Charge, Civil Engineering Division, CPRI, Bengaluru.

(ii) To be opened online at 3.30 PM of **17/06/2025**.

E-Tender

I/We have read and examined the notice inviting e-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 Director General, CPRI 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 e-Tender open for sixty (60) days from the due date of its opening and not to make any modification in its terms and conditions and the said rates.

I/We agree that the rates quoted by us shall be firm and hold good for the entire period of contract or the extended period and we understand that the accepted rates shall not be liable to be changed under any circumstances.

A sum of Rs. 78,300/- is hereby forwarded in fixed deposit receipt of scheduled bank/demand draft of a scheduled bank as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Director General, CPRI 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 Director General, CPRI or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit 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 & 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 CPRI in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of the Director General, CPRI 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 DG,
CPRI

Signature.....

Dated:

Designation.....

PROFORMA OF SCHEDULE

PROFORMA OF SCHEDULES

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders) (Operative Schedules to be supplied separately to each intending tenderer)

Schedule 'A' :	Schedule of quantities (as per CPWD-3) on Pages 25 to 44.
Schedule 'B':	No material will be issued to the contractor. The contractor has to arrange all the materials required for execution of the work at his cost.
Schedule 'C':	No tools and plants shall be issued to the contractor by CPRI on hire basis. The contractor has to arrange all the tools and plants required for execution of the work at his own cost.
Schedule 'D': Extra schedule for specific requirements/document for the work, if any.	Please refer pages 22 to 24 of this document.
Schedule 'E': Reference to General Conditions of contract:	CPWD GCC form-8 of 2023 incorporating amendments upto Circular bearing No. DG/CON-Maintanance/2023 dated 29.10.2024, which is available as a Govt. of India Publication including amendment no DG/CON-Maintanance/2023 dated 29.10.2024
Name of work:	A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26. SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL.
Estimate cost of work:	Rs.39,10,300/-
(i) Earnest Money	Rs.78,300/- (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 :	
(i) Officer inviting tender :	Engineer-in-Charge, Civil Engineering Division , CPRI, Bangalore
(ii) 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:	Joint Director, Civil Engineering Division, CPRI, Bangalore
2(viii) Accepting Authority	Director General, Central Power Research

			Institute, Bangalore
2(x) Percentage on cost of materials and labour to cover all overheads and profits:			15%
2(xi) Standard Schedule of Rates:			CPWD, DSR 2023
2(xii) Department:			Central Power Research Institute
9(ii) Standard CPWD Contract Form GCC 2020, CPWD Form 7/8 as modified & corrected upto			CPWD GCC form-8 of 2023 incorporating amendments upto Circular bearing No. DG/CON-Maintanance/2023 dated 29.10.2024, which is available as a Govt. of India Publication including amendment no. DG/CON-Maintanance/2023 dated 29.10.2024
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:			Four days
(ii) Maximum allowable extension with late fee @0.1% per day of performance guarantee amount beyond the period : provided in (i) above			Two days
Clause 2A: Compensation for delay			
Whether Clause 2 / 2A shall be applicable			2 applicable
Authority for fixing compensation under clause 2A:			Chairman, High Power Committee (HPC), CPRI, Bangalore
Clause 5:			
Number of days from the date of issue of letter of acceptance for reckoning date of start Milestone (s)as per table given below:			Fifth day of issue of letter of acceptance of tender or from the date of handing over the site whichever is later.
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	Demolition, Excavation, RRM, BBM, cinder fill, casting of roof with curing	49 Day(s)	2% of tendered amount
2	Plastering including dadoing, flooring, fixing of modular toilet partitions, sanitary installations including false ceiling	120 days	8% of tendered amount
Authority to decide:			
(i) Extension of time :			Engineer-in-Charge
(ii)Rescheduling of milestones:			Chairman, High Power Committee (HPC)
(iii)Shifting of date of start in case of delay in handing over of site			Chairman, High Power Committee (HPC)

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 5 Applicable clause 5 / Clause 5A		Clause 5 applicable	
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.9.78 Lakh or as decided by Engineer-in-Charge.	
Clause 7 A Whether Clause 7 A shall be applicable		Yes	
Clause 10A: List of testing equipment to be provided by the contractor at Site Lab.		As required for the work	
Clause 10B(ii):			
Whether clause 10B(ii) shall be applicable:		No. No mobilization advance against the work shall be given	
Clause 10C:			
Component of labour expressed as percentage of value of work:		25%	
Clause 10CC:		Applicable	
Clause 10D: Dismantled Material Govt. Property		Materials dismantled shall be disposed at any location within CPRI as identified and instructed by Engineer-in-charge. Dismantled windows and doors shall be stacked at location within CPRI as instructed by EIC. Debris shall be stored at identified location. All dismantled fittings and fixtures shall be stored in classified gunny bags.	
Clause 11: Specifications to be followed for execution of work:		(i) As per CPWD Specifications Vol-1&2- 2019 and as per nomenclature of items of work.	
		(ii) 'In partial modifications of provisions of Clause 0.2 of CPWD Specifications-2019, the rates for all items of work unless clearly specified otherwise shall include cost of all labour, materials, all leads and lifts and other inputs involved in the execution of the items.'	
		(iii) In partial modification of clause 0.8.3 of CPWD Specifications (Vol 1) 2019, the contractor shall bear testing charges of all materials stipulated in the CPWD	

	specifications Vol 1 & 2 – 2019, including incidental expenditure for testing samples namely packaging, sealing, transportation, loading, unloading etc., complete.
Clause 12 Authority to decide deviation upto 1.5 times of tendered amount	Director General, CPRI
Clause 12.2. & 12.3. Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	50% of respective items (The deviation stipulated is applicable for individual items) 100% of respective items (The deviation stipulated is applicable for individual items)
12.5: (i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (Except items mentioned in earth work sub head in DSR and related items) (ii) Deviation limit for items mentioned in earth work sub head of DSR and related items	Not Applicable
Point no.13 of General Rules and directions of GCC 2023 Maintenance Works	The rate quoted by the agency / firm shall be exclusive of GST and the same shall be processed as per applicable rules.
CLAUSE 16: Competent Authority for deciding reduced rates.	Chairman, High Power Committee, CPRI, Bangalore
Clause 18: List of mandatory machinery, tools, and plants to be deployed by the contractor at Site.	As required for the work
Clause 19C: Authority to recover costs from the contractor for defaulting in providing safety provisions as per CPWD Safety Code	Engineer-in-charge
Clause 19D: Authority for effecting deductions from the bills if the contractor does not furnish a true statement (fortnightly report) indicating the number of labourers, their working hours, wages paid to them, accidents that occurred during that period, the number of female workers who have been allowed maternity leave and the amount paid to them	Engineer-in-charge
Clause 19G: Authority for effecting deductions from the bills if the contractor commits a default of provisions of the CPWD, Contractor's Labour Regulations and Model Rules	Engineer-in-charge

Clause 19K: Authority to recover costs from the contractor for non-deployment of qualified tradesman	Not applicable
Clause 19 H	CPRI shall not make availability of any site to the contractor for erection of hutments for his labour in CPRI campus.
Clause 25 Constitution of Dispute Redressal Committee (DRC)	<p>No dispute redressal committee shall be constituted. All other provisions of the clause are as follows.</p> <p>Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions here –in before mentioned and as to the quality of workmanship or materials used on 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 these conditions 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 herein after.</p> <p>(i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-charge on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable, he shall promptly within 15 days request the Chairman HPC in writing for written instruction or decision. Thereupon, the Chairman HPC shall give his written instructions or decision within a period of one month from the receipt of the contractor's letter. If the Chairman HPC fails to give his instructions or decision in writing within the aforesaid period or if the contractor is dissatisfied with the instructions or decisions of the</p>

	<p>Chairman HPC, the contractor may, within 15 days of the receipt of Chairman HPC's decision, appeal to the Director General who shall afford an opportunity to the contractor to be heard, if the latter so desires, and to offer evidence in support of his appeal. The Director General shall give his decision within 30 days of receipt of contractor's appeal. If the contractor is dissatisfied with the decision of the Director General, the contractor may within 30 days from the receipt of the Director General's decision, give notice to the Director General for appointment of Arbitrator on prescribed Proforma as per Appendix XV, failing which the said decision shall be final binding and conclusive and not referable to adjudication by the arbitrator.</p> <p>It is a term of contract that each party invoking arbitration must exhaust the aforesaid mechanism of settlement of claims/ disputes prior to invoking arbitration.</p> <p>(ii) Except where the decision has become final, binding and conclusive in terms of sub- para (i) above, disputes or difference shall be referred for adjudication through arbitration by a sole arbitrator appointed by the Director General CPRI, in charge of the work. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.</p> <p>It is a term of this contract that the party invoking arbitration shall give his list of disputes with amounts, claim in respect of each such disputes along with the notice for appointment of arbitrator and giving reference to the rejection by the Director General of the appeal.</p> <p>It is also a term of this contract that no person, other than a person appointed by such Director General CPRI, as aforesaid, should act as arbitrator and if for any reason that is not</p>
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	possible, the matter shall not be referred to arbitration at all.
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CLAUSE 32

Requirement of Technical Representative(s) and recovery Rate

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the Contractor in the Event of not fulfilling provision of clause 36(i)	
						Figures	Words
1.	Diploma Engineer	Civil	Technical representative	One Year	One	Rs. 10,000/- Per month	Rupees Ten Thousand Only per month

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 2023 printed by C.P.W.D.

(ii) (ii) Variations permissible on theoretical quantities:

(a) Cement:

For works with estimated cost put to tender more than Rs. 25 lakh

2% plus/minus.

(b) Steel Reinforcement and structural steel sections for each diameter, section and category

2% plus/minus

(c) All other materials.

Nil

ADDITIONAL TERMS, CONDITIONS AND SPECIFICATIONS

Name of Work: A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26. SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL.

1. These Additional Terms, Conditions and specifications shall be read in conjunction with CPWD GCC form-8 of 2023 edition with upto date amendments.
2. The scope of the work consists of
 - A. **Ladies Washroom:**
 1. To demolish the existing wall and floor tiles including existing ventilators.
 2. To change all the sanitary and plumbing lines using new ones.
 3. To provide with two EWCs with in-built flushing cisterns, one Indian Water Closet, two wash basins with pedestals and two LED mirrors.
 4. The two toilets shall be made with modular partitions of 1.85 m height including doors and all necessary fittings.
 5. Flooring shall be of anti-skid floor tiles and dadoing upto false ceiling height with vitrified wall tiles.
 6. The grid false ceiling shall have auto suction exhaust fans installed to ensure odour free toilets round the clock.
 7. One hand dryer and two soap dispensers shall be installed.
 - B. **Gents Washroom:**
 1. To demolish the existing wall and floor tiles including existing ventilators.
 2. To change all the sanitary and plumbing lines using new ones.
 3. To provide with two EWCs with in-built flushing cisterns, one Indian Water Closet, twelve urinals with push cocks, five counter sunk on granite platform and long LED mirrors to cover five wash basins. An increase in one number of EWC, seven numbers of urinals and three wash basins.
 4. The three toilets shall be made with modular partitions of 1.85 m height including doors and all necessary fittings.
 5. Flooring shall be of anti-skid floor tiles and dadoing upto false ceiling height with vitrified wall tiles.
 6. The grid false ceiling shall have with auto suction exhaust fans installed in the false ceiling to ensure odour free toilets round the clock.
 7. One hand dryer and two soap dispensers shall be installed.
 - C. **Toilet for differently abled persons.**
 1. The proposed toilet shall be situated adjacent to the gents toilet.
 2. The floor shall be raised to required height with cinder fill to accommodate sanitary lines as the floor is not sunken in the said area.
 3. A ramp shall be created in the circulation area to negotiate between the existing corridor floor level and proposed toilet floor level.
 4. The toilet shall be provided with the complete set of toilet accessories with EWC, wash basin for differently abled persons which include grab bars, hand rail etc.
 5. Flooring shall be of anti-skid floor tiles and dadoing upto false ceiling height with vitrified wall tiles.
 - D. **CRTL committee room wall demolition**
 1. Demolition of the south wall (BBM) of CRTL committee room to facilitate expansion of area of CRTL committee room
 2. A new wall to be constructed with aluminium frame work cladded with PUF filled cement fibre board on both sides.
 - E. **Construction of toilet block in HPL premises**
 1. To break open the exterior wall for an area of 2.00m x 3.05m for creating entry to the new toilet block on the eastern side of Admin block of HPL.
 2. Excavation, PCC, RRM and BBM walls to be constructed as per the plan.
 3. It shall comprise of one Ladies toilet, Gents toilet block and a toilet for differently abled persons.
 4. The gents toilet block includes two modular toilets and five urinals with push cocks.

5. The gents and ladies toilets shall have EWCs with in-built flushing cisterns, counter sunk wash basins on granite platforms and suitable mirrors.
 6. The two toilets in gents toilet block shall be with modular partitions of 1.85 m height including doors and all necessary fittings.
 7. Flooring in all toilets shall be of anti-skid floor tiles and dadoing upto false ceiling height with vitrified wall tiles.
 8. Grid false ceiling to have auto suction exhaust fans to ensure odour free toilets round the clock.
 9. Hand dryers and soap dispensers shall be installed.
 10. The toilet for differently abled persons to be provided with the complete set of toilet accessories with EWC, wash basin for differently abled persons which include grab bars, hand rail etc.
3. The rate quoted for the items of work shall be inclusive of all leads and all lifts, including cost of necessary scaffolding, etc., complete.
 4. The contractor has to arrange all the tools and plant, ladders, scaffolding, jhoolas and all necessary accessories etc., required for execution of the work at his own cost and nothing extra shall be paid. The quoted rate shall be inclusive of all these costs.
 5. The contractor shall bring all the materials required for the work during working hours and working days of CPRI, save under exceptional situations, with the prior approval of Engineer-in-Charge.
 6. Whenever the contractor brings any material into CPRI campus for use in execution of the work, he shall submit the photocopies of corresponding bills / vouchers / delivery challans. The Engineer-in-Charge shall arrange to get the material brought by the contractor inside the CPRI campuses duly checked / verified departmentally, before taking the same into MAS account. The Engineer-in-Charge or his authorized representative(s) shall affix his signature on bills/ vouchers / delivery challans. If the contractor fails to submit the bills, etc., or fails to get the material checked / verified by the Engineer-in-Charge or his authorized representative(s), the same shall not be taken into MAS account.
 7. The DPR (Daily Progress Report) shall be signed by the contractor or his authorized technical representative daily which shall be part of the contract.
 8. The contractor shall scrupulously follow all the security regulations of CPRI that would be in force from time to time, during the period of execution of the work. He shall obtain necessary entry gate passes for bringing in materials and work force inside CPRI office campus needed for execution of work and he shall furnish full details of materials collected at site of work and labor deployed thereon with supporting documentary evidence. He shall be permitted to take out his surplus materials, tools etc., from the site of work, from the CPRI office campus, after obtaining necessary authorized gate pass, from the Engineer-in-Charge or his authorized representative. The entry of materials shall be through Main gate of CPRI only.
 9. Single phase / three phase electricity required for the work, if available will be supplied to the contractor free of charge at one point, only at the work site subjected to following conditions. Contractor shall make his own arrangement for laying distribution lines, cables, safety devices like fuses, ELCB, MCB, Control panels etc., at his own cost. As directed by Engineer-in-Charge. No compensation shall be paid to the contractor, in case of non-supply of power to the contractor.
 10. Income tax at the prescribed rate shall be deducted from the contractor, at source, from the bills payable to him.
 11. The contractor shall get done the additional tests apart from mandatory tests as per the terms, conditions and specifications, at his own cost. Nothing extra shall be payable.
 12. The Contractor must strictly follow the provisions of contract labour (Regulation & Abolition) Act, 1970 of Government of India and The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996.

13. The contractor shall follow the provision of CPWD safety code contained in CPWD GCC for Maintenance Works-2023
14. The rate quoted for the item of work shall be inclusive of all taxes and levies, **but excluding GST and cess**, payable under respective statute. However, if any further tax or levy or cess is imposed by statute, after the last stipulated date for receipt of quotations, including extensions, if any, and the contractor thereupon necessarily and properly pays such taxes/levies/cess, the contractor shall be reimbursed the additional tax amount so paid, provided such payments, if any, is not, in the opinion of The Chairman, High Power Committee (HPC) (whose decision shall be final and binding on the contractor) attributable to delay in execution of work, within the control of the contractor. The onus of complying with the statutory obligations of making payment of GST to the GST Department lies with the contractor. The contractor shall make a mention of his GST no and CPRI's GST no in the invoice to be raised after completion of work.
15. Bidders are advised to inspect & examine the site & its surroundings and satisfy themselves before submitting their bid as to the condition of the building, the form & nature of the site.
16. Individuals holding power of attorney shall not be allowed to operate a contract awarded to a contractor.
17. The agency shall be responsible to arrange all the tools & plants, whenever required at site and mitigate the loss incurred due to idling of equipment/plant. He shall not claim anything extra towards idling of equipment/machinery.
18. The agency/contractor shall permit other agencies such as electrical, firefighting, HVAC for installation of pipes, ducts, diffusers, outlets, sprinklers, control points and switches, etc. into the framework of false ceiling boards/framework of wall paneling. Nothing extra shall be payable on this account.
19. All hangers and accessories shall be securely fixed to the RCC roof by approved hangers.
20. The agency shall be required to submit samples of the material and shall not execute / fix the materials without prior approval of the Engineer-in-charge.
21. List of approved brands/ makes
 - Cement : ACC / Ultra Tech / Birla or as approved by Engineer-in-Charge.
 - Modular Toilet : Debo / T-Line or equivalent as approved by Engineer-in-charge.
 - Sanitary Fittings : Jaquar /Hindware/ Parryware or equivalent as approved by Engineer-in-charge
 - Dadoing & Flooring Tiles : Kajaria / Johnson & Johnson / Somany/ Nitco or equivalent as approved by Engineer-in-charge
 - CVPC pipes : Suriya / Prince / Aashirvaad or equivalent as approved by Engineer-in-charge
 - WPC Doors : Fenesta/ Alstone WPC/ Century Ply or equivalent as approved by Engineer-in-charge.
 - Cement Fibre Boards : Bison/Gyproc/Everest or equivalent as approved by Engineer-in-charge.
 - uPVC Winows : Fenesta /LG Housys/ Prominace/ Kommerling or equivalent as approved by Engineer-in-charge.

SCHEDULE-A

**Name of Work: A/R & M/O CPRI Office Campus at Sadashivanagar, Bengaluru 2025-26.
SH: Extension and modification of washrooms at CRTL Building and Construction of new washrooms at HPL.**

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)		Amount (Rs.)
				In fig.	In words	
1	Earthwork in excavation by mechanical means (Hydraulic esxcavator / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10sqm on plan)inlcuding getting out and disposal of the excavated earth lead upto 50m and for all lift, as directed by Engineer-in-charge.	Cum	20.00			
2	Dismantling W.C. Pan,Wash basins,urinals of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge.	Each	15.00			
3	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge. (a) Internal Work-Exposed on wall	Metr e	40.00			
4	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material outside the premises as per BBMP/ULB norms at appropriate dumping sites as per direction of Engineer - in-charge. Nothing extra shall be payable on this account.	Cum	2.00			
5	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	Cum	16.00			
6	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	Each	7.00			

7	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	Sqm	150.00			
8	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	Each	5.00			
9	Disposal of moorum/building rubbish/ malba/ similar unserviceable,dismantled or waste material by mechanical transport including loading,transporting, unloading to approved municipal dumping ground for lead upto 10km for all lifts, complete as per directions of Engineer-in-charge.					
	Note - item to be applicable in urban areas having directions for restricted hours formovement/ plying of load carrying motor vehicle of 3.5 cum or more	Cum	25.00			
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	4.00			
11	Centering and shuttering including strutting, propping etc. and removal of form work for : Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	sqm	24.00			
12	Providing and laying damp proof course 50 mm thick with cement concrete 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 resources)	Sqm	18.00			

13	Centering and shuttering including strutting, propping etc. and removal of form for					
a	Suspended floors, roofs, landings, balconies and access platform	Sqm	32.00			
b	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	12.00			
c	Weather shade, Chajjas, corbels etc., including edges	Sqm	22.00			
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	525.00			
15	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. : All works above plinth level upto floor V level					
	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	6.50			

16	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	35.00			
17	Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level.	Sqm	6.00			
18	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 5 in superstructure above plinth level up to floor V level.					
	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	105.00			
19	Random Rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : cement mortar 1:6(1 cement : 6 coarse sand)	Cum	33.00			
20	Coursed rubble masonry (second sort) with hard stone in foundation & plinth with cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5.00			
21	Providing and laying cinder concrete in cement 1:15 (1 cement : 15 cinder of 12.5mm nominal gauge) on terraced roof or sunken slabs, laid to slope compacting, including cost of materials, labour, curing complete as per specifications.	Cum	8.00			

22	Providing and fixing vitrified 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.	Sqm	330.00			
23	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias, urinal partitions and similar locations of required size, approved shade, colour and texture fixed to the vertical granite supports with araldite of required quantity, 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					
a	Granite stone slab of colour black, Cherry/Ruby red Area of slab over 0.50 sqm	Sqm	15.00			
24	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	1.00			

25	Providing and laying Vittrified tiles in floor in different sizes(thickness to be specified by the manufacturer) with waterabsorption less than 0.08% and conforming to IS:15622, ofapproved brand & manufacturer, in all colours and shade, laidon 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. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge,clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.					
	Glazed Vittrified tiles Matt/Antiskid finish of size. Size of Tile 600 x 600 mm	Sqm	95.00			
26	Providing and laying tactile tiles (for vision impaired persons as per standards) of size 300 x 300x 9.8mm having with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades in for outdoor floors such as footpath, courtyard, multi lodals location etc., laid on 20 mm thock base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns inlcuding grouting teh joints with white cement mixed with matching pigments etc., complete as per direction of Engineer-in-charge.	Sqm	5.00			
27	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	30.00			

28	12 mm cement plaster of mix: 1:4 (1 cement: 4 fine sand)	Sqm	150.00			
29	15 mm cement plaster on the rough side of single or half brick wall of mix: 1:4 (1 cement: 4 fine sand)	Sqm	140.00			
30	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	Sqm	28.00			
31	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	Sqm	8.00			
32	Finishing walls with Acrylic Smooth exterior paint of required shade :					
	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	140.00			
33	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.	Sqm	295.00			
34	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :					
	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	150.00			
35	Wall painting with acrylic emulsion paint, 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.					

	Two coats	Sqm	150.00			
36	Providing and fixing white vitreous wall mounted/hung water closet (European type W.C. pan) with seat and lid, 10 litre low level white flushing cistern, including flush pipe, with manually controlled device, conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : Brand: Jaguar or equivalent as approved by Engineer-in-Charge.					
a	W.C. pan with ISI marked white solid plastic seat and lid (Jaquar Code: CNS-WHT-363SPPZ)	Each	9.00			
37	Providing and fixing vanity cabinet of storage(floor mounted) with Vitreous china wash basin 630x450mm on top with C.I. brackets, 15 mm C.P. brass pillar tap, 32 mm C.P. brass waste of standard pattern, including cutting and making good the walls wherever required: Brand: Ikea,Somany,Nilkamal or equivalent as approved by Engineer-in-Charge.Material of vanity cabinet:High Density High Moisture Resistnant board/Particle Fiber Board with Plastic Foil and edging/High Performance Plastics	Each	8.00			
38	Providing and fixing (counter sunk) wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					
a	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap and suitable waste coupling (Jaquar Code: CNS-WHT-705)	Each	1.00			
39	Providing & Fixing of Rectangular LED Mirror for Bathroom with Warm White back & front Lit with touch panel Light - Rectangular (1067 x 610 mm) including all wall mounting hardware as per the attached specifications	Each	5.00			

40	Providing and fixing of Rectangular shape 453x357 mm Mirror with Decorative moulded frame as per the directions of engineering In-charge	Each	5.00			
41	Providing and fixing toilet paper holder : Brand: Jaguar or equivalent as approved by Engineer-in-Charge					
a	C.P. brass (Jaquar Code: ACN-CHR-1151N)	Each	11.00			
42	Providing and fixing Tee Equal Junction 110x110x110mm	Each	14.00			
43	Providing and fixing PVC Elbow of 100mm dia all complete as per the directions of Engineer-in-charge	Each	21.00			
44	Providing and fixing Elbow 75mm	Each	14.00			
45	Providing and fixing Unequal junction 4 x 3 TEE	Each	7.00			
46	Providing and fixing Shoe 75 mm	Each	7.00			
47	Providing and fixing Nani Trap 4 Way	Each	7.00			
48	Providing and fixing Nani Trap 1 Way	Each	7.00			
49	Providing and fixing 4 kg PVC pipe for sanitary line and vents including kowl wherever necessary: 110 mm dia	Metre	120.00			
50	Providing and fixing 4 kg PVC pipe for sanitary line and vents including kowl wherever necessary: 75 mm dia	Metre	60.00			
51	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. 110mm dia	Each	7.00			
52	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. 75mm dia	Each	7.00			

53	Providing and fixing plain bend of required degree. 110 mm dia	Each	7.00			
54	Providing and fixing plain bend of required degree. 75 mm dia	Each	7.00			
55	Providing and fixing single equal plain junction of required degree : 110x110x110 mm	Each	7.00			
56	Providing and fixing single equal plain junction of required degree : 75x75x75 mm	Each	7.00			
57	Providing and fixing collar : 110 mm	Each	7.00			
58	Providing and fixing collar : 75 mm	Each	7.00			
59	Providing and fixing PVC clamps for PVC pipes of diameter : 110 mm	Each	20.00			
60	Providing and fixing PVC clamps for PVC pipes of diameter : 75 mm	Each	20.00			
61 A	Cutting chases in brick masonry wall for sanitary lines and making good the same with cement concrete 1:3:6 including necessary plaster and pointing in cement mortar 1:4 :for 110mm dia	Metre	10.00			
61 B	Cutting chases in brick masonry wall for sanitary lines and making good the same with cement concrete 1:3:6 including necessary plaster and pointing in cement mortar 1:4: for 75 mm dia	Metre	6.00			
62	Providing and fixing Bottle Trap for Wash basin and sink. Brand: Jaguar or equivalent as approved by Engineer-in-Charge (Jaquar Code: ALD-CHR-769L300x190)					
a	Bottle trap (with internal partition) 32mm size with 300mm & 190mm long wall connection pipes and wall flange	Each	8.00			

63	Providing and fixing soap dispenser with PTMT bottle of size 70mm and height of 143mm, 70mm from wall with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms. : Brand: Jaguar or equivalent as approved by Engineer-in-Charge. (Jaquar Code:SDR-WHT-DJ0010FN)	Each	7.00			
64	Providing and fixing stainless steel towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement Brand: Jaguar or equivalent as approved by Engineer-in-Charge.					
a	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms. (Jaquar Code: ACN-CHR-1111SM)	Each	6.00			
65	Providing and fixing 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 : Brand: Jaguar or equivalent as approved by Engineer-in-Charge. (Jaquar Code: URS-WHT-13261H)	Each	17.00			
66	Providing and fixing stainless steel urinal cock of approved quality and colour. 15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms : Brand: Jaguar or equivalent as approved by Engineer-in-Charge. (Jaquar Code: PRS-CHR-077)	Each	17.00			

67	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.					
a	20 mm nominal dia Pipes	Metre	15.00			
b	25 mm nominal dia pipes	Metre	55.00			
68	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work					
a	32 mm nominal dia Pipes	Metre	24.00			
69	Providing and fixing unplasticised PVC connection pipe with brass unions : 45 cm length					
a	15 mm nominal bore	Each	13.00			

70	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :					
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	4.00			
71	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :					
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	2.00			
72	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.	per litre	1000.00			

73	Providing and fixing C.P. brass 2 way bib cock of approved quality conforming to IS:8931 : Brand: Jaguar or equivalent as approved by Engineer-in-Charge					
a	15 mm nominal bore (Jaquar Code: FON-CHR-40041)	Each	11.00			
74	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					
a	15 mm nominal bore (Jaquar Code: CON-CHR-083FTK)	Each	13.00			
75	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931, Brand: Jaguar or equivalent as approved by Engineer-in-Charge.					
a	15mm nominal bore (Jaquar Code: FLP-CHR-5053PM)	Each	11.00			
76	Providing and fixing Stainless steel grating (With Hole) of approved quality and colour. Circular type Brand: Jaguar or equivalent as approved by Engineer-in-Charge.					
	100 mm nominal dia	Each	12.00			
77	Providing and fixing Stainless steel grating (Without Hole) of approved quality and colour. Circular type Brand: Jaguar or equivalent as approved by Engineer-in-Charge.					
	100 mm nominal dia	Each	16.00			
78	Providing and fixing C.P. brass hand shower (Health Faucet) including connection pipe etc. complete as per the direction of Engineer-in-charge. Brand: Jaguar or equivalent as approved by Engineer-in-Charge (Jaquar Code: ALD-CHR-577)	Each	11.00			
79	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand: 10 graded stone aggregate 40 mm nominal size) all-round PVC sanitary pipes including bed concrete as per standard design :					

	110 mm nominal dia Pipes	Metre	21.00			
80	Supply and Installation of compact grade 12mm Toilet cubicle of DEBO/T-Line or equivalent :					
	1) Intermediate Panel, Pilaster & Door: The intermediate panel is one continued panel without any joints. All intermediate panels, panels, pilasters and doors shall be 12mm thick with edges chamfered. The solid compact laminate (Phenolic Core Board) is based on thermosetting resins, homogeneously reinforced with cellulose fibres. Top surface on both sides is melamine coated which is scratch and impact resistant.					
	2) Hardware and fixing: All pilasters are to be supported by adjustable foot and non-corrosive inserts. Top rail and wall fixing with and exterior polyimide coating so as to guarantee resistance to breakage, heat, humidity and chemicals. The base of the adjustable foot will be anchored to the floor with a clearance height of 75mm to 100mm as per directions of Engineer-in-charge. Aluminium U-Channel will be used for the fixing of intermediate panels to the wall.					
	3) Accessories: Each toilet compartment shall be equipped with the following accessories as per the manufactures specifications (DEBO / T-Line Toilet Cubicle system):					
	a) Stainless Steel Privacy Thumb turn					
	b) Aluminium U-Channel SS Coated					
	c) SS Door Knob					
	d) SS Coat Hook					
	e) SS Auto Return Hinges					
	f) SS Coated Aluminium Top Profile					
	g) SS Foot Clamp					
	h) SS Door Stopper Lining					
	Colour of the accessories will be Natural SS					
	Normal Cubicle of size 1350x1530x1850 mm (Note: No deduction shall be made for common partition walls of the cubicle)	Each	9.00			

81	<p>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 (wherever 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.</p>					
	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.					
	<p>Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for :</p> <p>(i) Sites with basic wind speed > 45 m/sec as per IS 875 – Part 3</p> <p>(ii) Sites with structure height more than 20m for all wind speeds</p>					
	Fixed window / ventilator with mullion / transom.					

a	Using R1 series with frame (33 mm & above) x (35 mm & above) & mullion (33 mm & above) x (50 mm & above). (Height upto 0.90 metre)	Sqm	7.00			
82	Providing and fixing Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of framesize 65 x 125 mm. as per the direction of engineering Incharge	Metre	6.00			
83	Providing and fixing to existing door frames					
a	factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter 30mm thick including ISI marked stainless steel butt hinges with necessary screws as per direction of Engineer-in-charge.	Sqm	4.00			
84	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete : (Copper oxidized as per IS : 1378).	Each	3.00			
85	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : (Copper oxidized as per IS : 1378).	Each	6.00			
86	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	Each	4.00			
87	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : (copper oxidized as per IS: 1378)					
a	250x16mm	Each	3.00			

88	<p>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 600 mm 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 serviceslike 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.</p>					
	<p>GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation and backed with a black Glass fiber acoustical fleece.</p>	Sqm	95.00			

89	<p>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.</p> <p>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) :</p>					
(i)	For fixed portion					
a	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	165.00			
90	<p>SUPPLY & INSTALLATION of PUF filled cement fibre board encased service opening penetration treatment for acoustic insulation with 16mm thick cement board of min. density 1250kg/m³ cut to exact penetration size fixed on either side of opening filled with expanded PUF spray of density 40-45kg/m³ with board edges to be grouted with elastomeric silicon based sealant. Work shall be complete inclusive of all fittings, hardware & sealents. (Approved Makes: Bison, Gyproc, Everest)</p> <p>INSTALLATION METHODOLOGY</p> <p>Cement fibre board 16mm thick has to be cut with 300mm overlap on solid surface around periphery of concrete/masonry opening and fixed to one side of the penetration with anchor fasteners and required washers with minimal tolerance between penetration duct/pipe and the board. Thereafter PUF spray to be grouted inside the penetration & civil opening to ensure complete expansion & filling of all available void. Excess PUF to be sliced off from the open end and cement board shall be fixed same way with anchor fasteners as per detail. All minimal gap between penetration and cement board to be grouted with non hardening elastomeric silicon sealant to ensure airtightness.</p>	Sqm	65.00			

91	Providing and fixing Exhaust fans in the false ceiling with aluminium sheet ducting.(Havells Code: Ventilair DX-C).Note:- Nothing extra shall be payable.	Each	10.00			
92	Providing and fixing hand dryer(touch-free) with 1150W rated power & carbon brush motor in the wall. Brand: Jaguar or equivalent as approved by Engineer-in-Charge (Jaguar Code: HDR-SSF-AK2803D)	Each	5.00			
93	Providing and fixing a complete set of toilet accessories with sanitary installations for differently abled persons, all as per specification. (a) Physically challenged EWC with DPSC- 1 no., (b) Wall hung wash basin with waste coupling and pillar cock- 1 set (c) wall mounted grab bar 600 mm long - 4 nos (d) hand rail 750x100 mm - 1 no. (e) Bottle trap 300 mm - 1 no. : Brand: Jaguar or equivalent as approved by Engineer-in-Charge.	Each	2.00			
	CIVIL TOTAL					
	(Rupees Only)					
					SIGNATURE OF THE CONTRACTOR	
	Joint Director					