

Government Of India
Ministry Of Housing & Urban Affairs



Central Public Works Department
Excellence in Public Works

Tender Published

Current Tender Details

Tender ID	147458	NIT/RFP NO	20/e-NIT/EE/CED-I/CCU/2025-26 (Recall)
Name of Work	Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical) Cancel Tender ID no. 145012		
Procurement Type	Works	Bid Type	Percentage
Tender Type	OPEN	Estimated Cost	₹ 63,09,958 (Sixty Three Lakh Nine Thousand Nine Hundred and Fifty Eight Rupees)
Bid Submission Closing Date	27/03/2026 15:00	Competitive Bidding Type	NCB

Tender Published Successfully.



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Enquiry Particulars

Regional Office	EE - CED - I	Office Inviting Bids	Chandigarh - CE - E and F - EE - CED - I
Tender ID	147458	NIT/RFP NO	20/e-NIT/EE/CED-I/CCU/2025-26 (Recall)
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Time Allowed	6 months	Tender Type	OPEN
Procurement Type	WORKS	Bid Type	Percentage
Type of Work	Civil Works - Buildings	Category of Tender	COMPOSITE
Estimated Cost(INR)	₹ 63,09,958	Competitive Bidding Type	NCB

Bid Submission Dates

Last Date & Time of receipt of Pre-Bid Queries	27/03/2026 14:55	Receipt of Queries through	Email
Email	eeced1ccu-mef@nic.in		
Bid Submission Closing Date & Time	27/03/2026 15:00	Bid Validity Period (In Days)	30
Bid Validity Expiry Date	26/04/2026 15:30	Tender Notice Type	Standard Notice Tender

Tender Inviting Authority Particulars

Office Inviting Bids	EE - CED - I	Designation	Executive Engineer
Address	Civil Construction Unit, 7th Floor, Pt. Deendayal Antyodaya Bhawan, CGO Complex, Lodhi Road New Delh	Contact Details	9969617538
Email	eeced1ccu-mef@nic.in		

EMD Details

EMD (INR)	EMD in favour of	Mode of Payment
₹ 1,26,199	Executive Engineer, CED-1, CCU, MoEF&CC, New Delhi.	DD,FDR,BG

Bid Openers

Department User Name	Region	Mobile Number	Email	Designation	Certificate serial No	Certificate Expiry
SANJAY KUMAR MEENA	EE - CED - I	9969617538	aecivilcpd@gmail.com	Executive Engineer	5b89003586e5	07/10/2027 01:07
RAM LAL	EE - CED - I	8195997670	erramlal.cpwd@gmail.com	Assistant Engineer	186181b	09/07/2026 12:16

Tender Documents

S.No	File Name	File Description	File Size (in Bytes)	Uploaded Date
1	NIT2001 Recall.pdf	NIT2001 Recall	329689	18/03/2026 13:36
2	NIT2002 Recall.pdf	NIT2002 Recall	1687604	18/03/2026 13:36
3	Eligibility.pdf	Eligibility	623284	18/03/2026 13:37

Mandatory Documents Details

S.No	Documents Required from Vendor	Document Type
1	Insurance Surety Bond Demand Draft or Account Payee Bankers Cheque or FDR or Bank Guarantee of any commercial Bank against EMD	Mandatory
2	Receipt of deposit of EMD in any divisions of CPWD CCU MoEFandCC	Mandatory
3	Enlistment Order of the Contractor in appropriate class and category in CPWD	Mandatory
4	Valid Electrical licence	Mandatory
5	ESI and EPF certificate of the contractor	Mandatory
6	PAN Card issued by Income Tax Department	Mandatory
7	GST Registration Certificate if already obtained by the bidder	Mandatory
8	Any other Document as specified in the NIT	Mandatory

Eligibility Documents Details

S.No	Documents Required from Vendor	Document Type
1	Eligibility	Mandatory

Tender Covers

S.No	Cover Name	Bid Opening date	View Details
1	Single Bid	27/03/2026 15:30	View Action

Single Bid

S.No	File Name	File Size(in Bytes)
1	147458-PercentageComposite1.xls	62464

Close

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GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
CIVIL CONSTRUCTION UNIT

NIT No.: 20/e-NIT/EE/CED-I/CCU/2025-26 (Recall)

Notice Inviting e-Tender

Name of Work: - Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical Works)

Estimated Cost: - Rs. 63,09,958/-

EMD Cost: - Rs. 1,26,199/-

(March, 2026)

**ISSUED BY
EXECUTIVE ENGINEER,
CED-I, CCU, MoEF&CC**

INDEX

Name of work: Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical Works)

NIT No.: 20/e-NIT/EE/CED-I/CCU/2025-26 (Recall)

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This NIT contains 1 to 75 pages including this page.

Assistant Engineer (P)
CED-I, CCU, New Delhi

NIT No. **20/e-NIT/EE/CED-I/CCU/2025-26 (Recall)** approved for Rs. 63,09,958/- (Civil: Rs. 51,24,184/- + Electrical: Rs. 11,85,774/-) (Rupees Sixty Three Lakh Nine Thousand Nine Hundred Fifty Eight Only) and containing pages 1 to 75.

Executive Engineer (C)
CED-I, CCU, MoEF&CC
New Delhi

PART-A

GENERAL INFORMATION

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

The Executive Engineer, CED-I, Civil Construction Unit (CCU), Ministry of Environment, Forest & Climate Change (MoEF&CC), 7th Floor, Pt. Deen Dayal Antyodaya Bhawan, CGO Complex, Lodhi Road, New Delhi-110003 (email: - eecced1ccu-mef@nic.in) on behalf of President of India invites online Percentage rate bids from approved and eligible CPWD registered contractors in composite category for the following work:-

S. No.	NIT No.	Name of work and location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date & time of submission of bid, copy of receipt of deposition of original EMD, and other Documents as specified in NIT	Time & date of opening of bid
1	2	3	4	5	6	8	9
1	20/e-NIT/EE/CED-I/CCU/2025-26 (Recall)	Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical Works)	Rs. 63,09,958/- (Civil: Rs.51,24,184/- + Electrical: Rs. 11,85,774/-)	Rs. 1,26,199/-	06 (Six) Months	27.03.2026 upto 3.00 PM	27.03.2026 at 3.30 PM

**To be filled by Executive Engineer, CED-I, CCU

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

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

- 2) Information and Instructions for bidders posted on websites shall form part of bid document.
- 3) The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of opening of bid is extended, the enlistment of contractor should be valid on the original date of opening of tender.
- 4) The bid document consisting of plans, specifications, schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> free of cost.
- 5) But the bid can only be submitted after deposition of EMD through Payment Online payment mode and original bank guarantee including e-Bank guarantee (for balance amount as prescribed) **either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD/CCU, MoEF&CC within the period of bid submission** and uploading the mandatory scanned documents as mentioned in the NIT, receipt for deposition of original EMD to any division office of CCU, MoEF&CC/ CPWD or office of **Executive Engineer, CED-I, CCU, Delhi** and other documents as specified.
- 6) Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step-to-step process are available on download section of <https://etender.cpwd.gov.in>.
- 7) The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the eMSigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
- 8) On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- 9) Contractor 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 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.
- 11) 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.
- 12) Copy of enlistment order and certificate of work experience and other documents as specified in the tender documents for eligibility shall be scanned and uploaded to the e-tendering website within the period of bid submission.

- 13) Online bid documents submitted by intending bidders shall be opened only of those bidders, whose deposited EMD and other documents scanned and uploaded are found in order.
- 14) If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in department. The department reserves the right to verify the particulars furnished by the applicant independently.

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

- 1) Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
- 2) Receipt of deposit of EMD in any divisions of CPWD/CCU, MoEF&CC
- 3) Enlistment Order of the Contractor in appropriate class and category in CPWD.
- 4) Valid Electrical licence.
- 5) ESI & EPF certificate of the contractor.
- 6) PAN Card issued by Income Tax Department.
- 7) 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 under taking 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".

- 8) Any other Document as specified in the NIT.

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

CPWD 6 FOR E- TENDERING

1. Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of CPWD in appropriate class in Buildings & Roads (erstwhile composite /Building/ Infrastructure) category for the work **“Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical Works)”**

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. **63,09,958/- (Civil: Rs. 51,24,184/- +Electrical: 11,85,774/-)**. This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD 7** which is available as a Govt. of India Publication and also available on website **www.cpwd.gov.in**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **06 months** from the date of start as defined in schedule ‘F’ or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available on as it is where it is basis and will be made available in phases. **The bidders have to quote their rates in view of the site conditions and other parameters.**
5. The architectural drawings shall be made available in phased manner, as per requirement of the same and as per approved programme of completion submitted by the contractor after award of work.
6. The bid document consisting of Plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract (GCC) Form can be seen on website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
7. After submission of the bid the contractor can re-submit revised bid any number of times **or withdraw it** before last date and time of submission of bid as notified. **No post-tender modification is allowed by the tenderers except through negotiations, if required. In case, any tenderer does so, the tender will be rejected and the tenderer will be debarred for future tendering in CCU/CPWD for two years by the concerned enlisting authority (in case of CPWD enlisted contractor) and by the concerned CE/SE (in case of non-enlisted contractor).**
8. 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.

9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e- Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of **Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CCU/CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee including e- Bank Guarantee of any Commercial bank having validity for a period of **90 days** or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e- tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e- tender notice shall have to be submitted by the lowest bidder 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/CCU and other document scanned and uploaded are found in order.

10. The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if:
- (i) The bidder is found ineligible.
 - (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer

- 11. The contractor whose bid is accepted will be required to furnish performance guarantee of (a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher) performance Guarantee shall remain valid for a minimum period of six months beyond the date of completion of all contractual obligations. (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the**

requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered value 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. 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 be also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including provident fund code no. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

12. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CCU Circle responsible for award and execution of contracts, in which his near relative is posted as a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him

and who are near relatives to any Gazetted officer in the Civil Construction Unit or in the Ministry of Environment, Forests and Climate Change. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of the Department.

17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bid for the work shall remain open for acceptance for a period of **30 (Thirty)** days from the date of opening of tenders.
 - i) If any tenderer withdraws his tender within 7 days after last date **and time (24 hours basis)** of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date **and time (24 hours basis)** of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - iii) **Withdrawal of the tender, by the tenderer, shall only be made through e-tender portal. Any other method i.e. through letter/ e-mail etc. shall not be considered.**
 - iv) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work..
19. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
 - i) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - ii) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.
 - iii) General Conditions of Contract 2023 for Maintenance works, Central Public Works Department, as corrected up to last date of submission of bids.
20. Specialized Agencies for E&M services: The tenderer must associate himself with agencies of the appropriate eligibility for each of specialized nature of items / work as per part- 'C' of NIT. Such works shall be got executed only through associated agencies specialized in these fields. Separate MOU has to be signed with each of the specialized works with either OEMS (Authorised channel partners) or with specialized agencies who have the credentials of executing either one work of 80% value or two work of 60% value or three works of 40% value of the corresponding component of the specialized work in last seven years. It shall be the responsibility of main contractor to sort out any dispute / litigation with the Specialized Agencies without any time & cost overrun to the Department. The main contractor shall be solely responsible for settling any dispute / litigation arising out of his agreement with the Specialized Agencies. The contractor shall ensure that the work shall not suffer on account of litigation/ dispute between him and the specialized agencies / sub-contractor(s). No claim of hindrance in the work shall

be entertained from the Contractor on this account. No extension of time shall be granted and no claim what so ever, of any kind, shall be entertained from the Contractor on account of delay attributable to the selection/rejection of the Specialized Agency. The main contractor has to associate agency(s) for specialized 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 within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer –in-Charge.

21. The proposal for all specialized agencies (for Civil works and E& M works as specified in part 'B' and Part 'C' of notice inviting tender respectively) shall be submitted by the contractor within 7 days of the date of start/commencement. MOU should be submitted within 15 days of the date of start/commencement. In case of non-submission or incomplete or part submission of the proposals, deduction @ Rs. 10000/- per day per proposal of specialised agency shall be made from any amount payable to the contractor.
22. In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-Charge. The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-Charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
23. The main contractor has to enter into MoU with agency(s) associated by him/ Copy of such MoU shall be submitted to Engineer in charge. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.
24. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through ERP helpline no. 18001803286 or e-mail ld cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.
25. Price Preference to SC/ST individual contractor for item rate/percentage rate tender: 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. 2.80 lakh, a price preference upto 5% (**with reference to the lowest valid tender**) may be allowed in favour of individual SC/ST contractor. In such cases tender may be entertained even from non-enlisted SC/ST contractors. No earnest money is required in such cases.
 - (ii) For work(s) beyond an estimated cost of Rs. 2.80 lakh and upto and equal to estimated cost of Rs. 6.40 lakh, tender may be invited only from CPWD enlisted contractors. The price preference upto 5% (**With reference to the lowest valid price bid**) may be allowed in favour of individual SC/ST contractor. However, earnest money at reduced rate of ½ % may be accepted in such cases.

The price preference upto 5% (with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractor only. The above concession shall be allowed only after verification of the individual contractor's claim of belonging to SC/ST community

*To be filled in by NIT approving authority

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

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE

PERCENTAGE RATE BID AND CONTRACT FOR WORKS

Tender for the work of “**Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical Works)**”

- i) To be uploaded by **03:00 PM on 27.03.2026** to/upload at
- ii) To be opened in presence of tenderers who may be present at **03:30 PM on 27.03.2026** in the office of in the office of the Executive Engineer, CED-I, CCU, Delhi.

** To be filled by EE, CED-I

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.

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

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. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute 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(c) of the tender form. I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety and integrity of the State.

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 CCU, MoEF&CC 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.

Signature of contractor

Postal Address -----**

Telephone No. -----**

Fax -----**

E-MAIL -----**

Witness:

Address:

Occupation:

** To be filled by Bidder

SCHEDULE – ‘A’, ‘B’, ‘C’, ‘D’, ‘E’ & ‘F’ FOR THE WORK

SCHEDULE ‘A’

Schedule of Quantities -

As per contract document

SCHEDULE ‘D’

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

Reference to General Conditions of contract	CPWD General Conditions of Contract 2023 Maintenance works, as amended up to last date of submission of bids.
Name of Work	Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical Works)
Estimated cost of the work	Rs. 63,09,958/- (Civil: Rs. 51,24,184/- +Electrical: 11,85,774/-)-
Earnest money	Rs.1,26,199/-
Performance Guarantee	5.00% of tendered amount
Security Deposit	2.50% of tendered amount.

SCHEDULE ‘F’

GENERAL RULES AND DIRECTION

Officer inviting tender	The Executive Engineer, CED-I, Civil Construction Unit (CCU), Ministry of Environment, Forest & Climate Change (MoEF&CC), CGO Complex, Lodhi Road, New Delhi -110003.
Maximum percentage of quantity of items of work to be executed beyond which rates are to be determined in accordance with Clause 12.2(c)	See at appropriate clause

Definitions:

2(vi)	Engineer-in-Charge	Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi or his or his legal successor or Assignee thereof.
2(viii)	Accepting Authority	Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi or his or his legal successor or Assignee thereof.
2(x)a	Percentage on cost of materials and labour to cover all overheads and profits	7.5% for items of supply of materials and 15% for execution of items

2(x)b	Standard Schedule of Rates	
	Civil Works	DSR-2023 with correction slips issued upto last date of submission of bids and Market Rates
	Electrical & Mechanical Works	DSR-2025 with correction slips issued upto last date of submission of bids & Market rates
2(xi)	Department:	Civil Construction Unit, Ministry of Environment, Forest & Climate Change, Government of India.
9(ii)	Standard CPWD Contract Form	CPWD Form 7 of General Conditions of Contract 2023 for Maintenance works, Central Public Works Department, as modified and corrected up to last date of submission of bids.

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.	07 Days
ii)	Maximum allowable extension with late fee @0.1% per day of Performance Guarantee amount beyond the period as provided in (i) above	03 Days
Clause 2		
i)	Authority for fixing Compensation under Clause 2:	Superintending Engineer, CCU, MoEF&CC or his legal successor or Assignee thereof
Clause 5		
i)	Number of days from the date of issue of letter of acceptance for reckoning date of start	7 Days

Mile stones as per table given below

Sl. No.	Description of mile stone (s)	Time allowed (From date of start)	Amount to be withheld in case of Non-achievement of each Mile stone(s)
1	Work done amounting to 25% of accepted tender amount (Civil + Electrical).	1.5 Month	1.25% of accepted tendered amount.
2	Work done amounting to 50% of accepted tender amount (Civil + Electrical).	1.5 Month	1.25 % of accepted tendered amount.
3	Work done amounting to 75% of accepted tender amount (Civil + Electrical).	1.5 Month	1.25 % of accepted tendered amount.
4	Work done amounting to 100% of accepted tender amount (Civil + Electrical).	1.5 Month	1.25 % of accepted tendered amount.

Time allowed for execution of work:

06 (Six) Months

Authority to decide:

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

CLAUSE 5.4: Schedule of rate of recovery for delay in submission of the modified programme in terms of delay days

S.N.	Contract Value	Recovery Rs / Per day
1.	More than Rs. 1 Crore	500

Clause 6

i) Mode of measurement	CMB
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Clause 7

Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 10.51 Lakhs for Civil & Electrical & Mechanical works
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Clause 7A Whether clause 7A shall be applicable	Yes
Clause -7B Whether clause 7B shall be applicable	Yes

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

Authority to decide compensation on account if contractor fails to submit completion plans	Executive Engineer, CED-I, CCU, MoEF&CC or his legal successor or Assignee thereof.
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Clause 10 A

As per details attached in the relevant pages of this bid document

Clause 10 B

Clause 10B (ii) Whether Clause 10 B (ii) shall be applicable	No
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Clause 10 C

Whether Clause 10 C shall be applicable	Yes
Component of labour expressed as percent of value of work	25%

Clause 10CC – Not Applicable**Clause 11:**

Specifications to be followed for execution of civil work	:	CPWD Specifications 2019 Volume-I and II with correction slips issued upto last date of submission of bids.
Specifications to be followed for execution of Electrical & Mechanical Works	:	CPWD Specifications for Electrical Work. Part-I (Internal) 2023, Part- II (External) 2023, Part-IV (Substation) 2013, Part-VI Fire detection and alarm System-2018, HVAC 2024 and as amended up to date.

Clause 12:

Type of Work:	Maintenance Work	
The completion cost of shall, in no case, exceed 1.5 times the contract amount and governed as per DG CPWD Memorandum No. DG/CON/Maintenance 2023/03 dated 18.12.2023.		
Authority to decided deviation upto 1.25 times of tendered amount	Engineer-in-Charge	
Authority to decided deviation beyond 1.25 times & 1.50 times of tendered amount	Chief Engineer, CCU, MoEF&CC, New Delhi	
12.2. & 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work.	No Limit (All deviated quantities shall be paid on agreement rates)

Clause 16:

Competent authority for deciding reduced rates	:	Superintending Engineer, CCU, MoEF&CC or his legal successor or Assignee thereof
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Clause 18:

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

As per details attached in the relevant pages of this bid document
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Clause 19

Clause 19 C	Authority to decide penalty for each default	Executive Engineer, CED-I, CCU, MoEF&CCor his legal successor or Assignee thereof
Clause 19 D	Authority to decide penalty for each default	Executive Engineer, CED-I, CCU, MoEF&CCor his legal successor or Assignee thereof
Clause 19 G	Authority to decide penalty for each default	Executive Engineer, CED-I, CCU, MoEF&CCor his legal successor or Assignee thereof
Clause 19 K	Authority to decide penalty for each default	Executive Engineer, CED-I, CCU, MoEF&CCor his legal successor or Assignee thereof

Clause 25: Settlement of disputes by Conciliation and Arbitration

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

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

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)
1	Graduate Engineer Or Diploma Engineer	Civil + Electrical	Project Manager cum planning/ quality/site /billing Engineer	2 or 5 years respectively	1+1	Rs. 30,000/- per month per person

- 1) Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.
- 2) 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	DSR 2023 with Amendments/ Correction slips up to last date of submission of Tender
(ii)		Variations permissible on theoretical quantities:	
	(a)	Cement	
		For works with estimated cost put to tender more than Rs. 5lakh.	3% (Three percent) plus/minus.
		Bitumen for all works	2.5% (Two-point five percent) plus only and nil on minus side.
	(b)	Steel Reinforcement and structural steel sections for each diameter, section and category	2% (Two percent) plus / minus
	(c)	All other materials	Nil

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

Receipt of deposition of original EMD (drawn in favour of Executive Engineer, CED-I, CCU, MoEF&CC, Delhi) (Receipt No. / date.....)	
Name of work	: Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical Works)
NIT No	: 20/e-NIT/EE/CED-I/CCU/2025-26 (Recall)
Estimated Cost	: Rs 63,09,958/- (Civil: Rs. 51,24,184/- +Electrical: 11,85,774/-)-
Amount of Earnest Money Deposit	: Rs. 1,26,199/-
Last date of submission of bid	: 27.03.2026
To be filled by EMD receiving Executive Engineer	
Name of contractor	:
Form of EMD	:
Amount of Earnest Money Deposit	:
Date of Submission of EMD	:
	(Signature) Name and Designation of EMD receiving officer (EE/AE(P)/AO/AAO) along with office stamp

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

(Guarantee offered by Bank to CCU in connection with the execution of contracts)

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

1. Whereas the Executive Engineer (name of division), CCU 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), CCU 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 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 hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.(Rupeesonly).
4. We, (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made 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.

LIST OF 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 by the contractor at his own cost. The following minimum laboratory equipment's shall be set up at site office laboratory:

Sl. No.	Equipment	Numbers (Minimum)
1	Compressing testing machine	As per requirement
2	Cube mould	
3	Slump cone, steel plate, tamping rod, steel scale, scoop	
4	Graduated glass measuring cylinder	
5	Sets of sieves of 450mm internal dia for coarse aggregate [100mm, 80mm, 40mm; 20mm;12.5mm, 10mm;4.75mm complete with lid and pan]	
8	Sets of sieves of 200mm internal dia for fine aggregate [4.75mm;2.36mm;1.18mm; 600 microns;300 microns& 150micron,	
9	Sieve Brushes and sieve shaker capable of 200mm and 300mm dia sieves, manually operated with timing switch assembly	
10	Electronic balance 600gx0.1g., 10kg and 50kg	
11	Physical balance weight upto 5 kg	
12	Measuring jars100ml, 200ml,500ml	
13	Gauging trowels 100mm & 200mm with wooden Handle	
14	Spatula 100mm & 200mm with long blade wooden Handle	
15	Vernier callipers12” &6” size	
16	GI tray 600x450x50mm, 450x300x40mm,300x250x40mm	
17	Screw gauge 0.1mm-10mm, least count 0.05	
18	Set of box spanner	
19	Hammer1lb & 2lb	
20	Rubber Hammer	
21	Hacksaw with 6 blades	
22	Measuring tape 5mtr	
23	Depth gauge 20cm	
24	Shovels &Spade	

Note: The above list is only indicative and not exhaustive. The contractor may be required to provide more equipment's as per the requirement of work and as per the direction of the engineer-in-charge.

**LIST OF MANDATORY MACHINERY, TOOLS & PLANTS TO BE DEPLOYED BY
THE CONTRACTOR AT SITE**

S. No.	Equipment	Numbers (Minimum)
1.	Needle Vibrators.	As per Requirement of work
2.	Plate Vibrator	
3.	JCB, Excavator, Dumper, Tipper	
4.	Reinforcement cutting & Bending machines	
5.	Total station.	
6.	Auto level & staff.	
7.	Water tanker (Minimum capacity of 5000 litres)	
8.	Welding machine 400 Ampere	
9.	Screener for coarse sand and fine sand	
10.	Centrifugal mono block water pump minimum capacity 2 HP	
11.	Steel Shuttering with necessary steel props	
12.	Steel scaffolding and staging materials	
13.	Plain Concrete/Mortar Mixer	
14.	Semi-Automatic Pavement Concrete Paver	
15.	Screed Vibrator	
16.	Any other machinery required for completion of the work as per decision of Engineer-in-charge.	

PART-B

ADDITIONAL CONDITIONS, SPECIFICATIONS AND SCHEDULE OF QUANTITIES CIVIL WORK

ADDITIONAL CONDITIONS

1. GENERAL

- 1.1.** The Contractors are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of site, the means of access to the site, the constraints of space for stacking material / machinery, labour etc., constraints put by local regulations (if any), weather conditions at site (rainfall, snowfall, winter/summer temperatures etc.), general ground / subsoil conditions etc. or any other circumstances which may affect or influence their tenders. No claims, whatsoever, shall be entertained at a later date for any errors found, on plea that the information supplied by the Department in the tender is insufficient or is at variance with the actual site conditions.
- 1.2.** The contractor shall, if required by him, before submission of the tender, study the drawings and tender document carefully. The Department shall not bear any responsibility for the lack of knowledge and also the consequences, thereof to the Contractor. The information and data shown in the drawings and mentioned in the tender documents have been furnished, in good faith, for general information and guidance only. The Engineer-in-Charge, in no case, shall be held responsible for the accuracy thereof and/or interpretations or conclusions drawn there from by the Contractor and all consequences shall be borne by the Contractor. It is presumed that the Contractor shall satisfy himself for all possible contingencies, incidental charges, wastages, bottlenecks etc. likely during execution of work and acts of coordination which may be required between different agencies. Nothing extra shall be payable on this account.
- 1.3.** The work shall generally be carried out in accordance with the “CPWD Specifications 2019 Vol. I & II” with correction slips up to last date of submission of bid (including any extension in last date of bid submission), additional/Particular Specifications, Architectural/Structural drawings and as per instructions of Engineer-in-Charge. Any additional item of work, if taken up subsequently, shall also conform to the relevant specifications mentioned above.
- 1.4.** The several documents forming the tender are to be taken as mutually complementary to each other. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scale dimensions. Between two or more Clauses of this Contract, the provisions of a specific Clause relevant to the issue under consideration shall prevail over those in other Clauses.
- 1.5.** The work shall be carried out in accordance with the Architectural & Structural drawings (if required), and instruction issued by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural, structural and services drawings issued for the work and satisfy himself that the information available there from is complete and unambiguous. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information
- 1.6.** Should there be any difference or discrepancy between the description of items as given in the particular specifications for individual items of work, special conditions and I.S. Codes, drawings etc., the following order of preference shall be observed-

- (i) Nomenclature of items as per Schedule of Quantities
- (ii) Special/Additional Conditions
- (iii) Particular Specifications
- (iv) Architectural/Structural drawings
- (v) CPWD Specifications including upto date correction slips.
- (vi) CPWD General Conditions of Contract (2023) for Maintenance works including correction slips issued up to last date of submission of bid including extensions if any.
- (vii) Indian Standards Specifications of B.I.S.
- (viii) ASTM, BS, or other foreign origin code mentioned in tender document.
- (ix) Manufacturer's specifications and as decided by the Engineer-in-Charge.
- (x) Sound Engineering practices or well-established local construction practices.

- 1.7.** In the event of any variation/ discrepancy in the drawings, specifications and tender Documents etc. the decision of the Engineer-in-Charge shall be final, binding and conclusive. If, the contractor have any doubt, the same should be got clarified immediately from the Engineer-in-charge and no claim of the contractor shall be entertained thereafter. Moreover, the contractor is not allowed to take benefit out of any clerical/ grammatical mistake in the standard clauses/Specifications etc. being used in the agreement.
- 1.8.** The contractor shall give to the local body, police and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be levied on account of these operations in executing the contract. The charges to be paid by contractor are not related to permanent constructed asset as per contract.
- 1.9.** The contractor shall ensure that there is no damage to adjoining property. If any such untoward incident happens, he shall be entirely responsible for any consequences besides making good any damages to the adjoining property whether public or private. He shall supply and maintain lights either for illumination or for cautioning the public at night.
- 1.10.** The contractor shall bear all incidental charges for cartage, storage and safe custody, insurance, erection, testing and commissioning of materials issued by department (if any) as well as to those materials arranged by the contractor. The contractor shall also be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
- 1.11.** A reference made to any Indian Standard Specifications in these documents, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The Contractor shall keep at his own cost all such publications of relevant Indian Standard applicable to the work at site.
- 1.12.** No claim whatsoever on account of any discrepancy between the sub-surface strata conditions shall be entertained.

- 1.13.** Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor. Nothing extra shall be paid on this account.
- 1.14.** No tools and plants including any special T&P etc. shall be supplied by the Department and the Contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.
- 1.15.** Wherever required for the execution of work, scaffolding shall be provided and suitably fixed, by the Contractor. The contractor shall provide steel double scaffolding system, suitably braced for stability, with all the accessories, gangways, etc. with adjustable suitable working platforms to access the areas with ease for working and inspection. It shall be designed to take all incidental loads. It should cater to the safety features for workmen. Nothing extra shall be payable on this account. It shall be ensured that damage is not caused to any structure due to the scaffolding
- 1.16.** The Contractor shall take all precautions to abide by the environmental related restrictions imposed by any statutory body having jurisdiction in the state as well as prevent any pollution of streams, ravines, river bed and waterways. All waste or superfluous materials shall be transported by the Contractor and disposed off at designated places only. Nothing extra shall be payable on this account.
- 1.17.** No claim on account of site constraints mentioned in this document or any other site constraints such as lack of public transport, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts etc. or any other constraints not specifically stated here shall be entertained from the Contractor. Therefore, the tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account. Any hindrances claimed by the contractor on this account shall not be considered while action under clause '2' and '5' of General condition of contract amended upto date till last date or extended last date of submission of tender.
- 1.18.** The tenderer shall acquaint himself with the proposed site of work, its approach roads, working space available etc. before quoting his rates and no claim on this account shall be entertained by the department.
- 1.19.** The contractor will not be allowed to construct labour huts in the Campus. The contractor has to make arrangement for labour huts outside Campus at his own cost. Nothing extra shall be paid on this account.
- 1.20.** The contractor shall keep the site neat & clean during execution of the work and cover the building materials with cloths.
- 1.21.** The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night. The contractor shall ensure entire necessary precaution during the entire period of work and site related activities to ensure full safety to workers and avoid any kind of accident. In case of any accident of labour's/ contractual staffs or any other human being the entire responsibility will rest on the part of the contractor both legally and financially and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.

- 1.22.** Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been included in the contract amount and nothing extra shall be payable for extra cement considered in consumption on this account.
- 1.23.** In case of any fine imposed by authorities due to scattered malba / building materials or any harm due to malba / materials or by worker of the contractor the same shall be paid by contractor within prescribed period otherwise same shall be recovered from the bills or securities / performance guarantee of the contractor.
- 1.24.** The contractor(s) shall get himself acquainted with nature and extent of the work and satisfy himself about the availability of materials from kiln or approved quarries for collection and conveyance of materials required for construction.
- 1.25.** The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost. No payment shall be made on this account and the quoted rates shall be deemed to be inclusive of all such activities.
- 1.26.** The work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
- 1.27.** The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and water-ways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor without any reservation entirely to the satisfaction of the Engineer-in-Charge.
- 1.28.** Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants/ users of building/adjacent properties.
- 1.29.** Other agencies may also simultaneously execute and install the works of other civil and E&M services for the work. The contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works and the contractor shall fix the same at time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- 1.30.** The contractor shall conduct work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

- 1.31.** Royalty at the prevailing rates wherever payable shall have to be paid by the contractor on the boulders, metal, shingle, sand, local earth/soil and bajri etc. or any other material collected by him for the work direct to revenue authorities and nothing extra shall be paid by the department for the same.
- 1.32.** Permission for the Excavation of the Basement and/or any Mining Approval along with carriage and disposal of surplus excavated earth shall be obtained by the contractor at his own expenses from Local Administration / Revenue Authority. Department / User Department shall only forward the case to the concerned Authority. Moreover, all the fee including royalty for surplus excavated earth is to be paid by the contractor to the concerned department. Nothing extra shall be paid on account of this to the contractor.
- 1.33.** No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the govt. property and work for which the payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his material, T&P, Machinery brought to the site by him.
- 1.34.** The contractor shall deploy adequate resources e.g. man power, labour, T&P, Plant & Equipment etc. as per actual requirement of work.
- 1.35.** The rates for all items of work shall, unless clearly specified otherwise, include cost of all labour, material, tools and plants and other inputs including all heights/depths, leads and carriages involved in the execution of the item.
- 1.36.** The Contractor shall keep himself fully informed of all acts/laws of the Central/State/Local Governments, orders of central/state/local government, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / Municipal Corporation of area (where site is located) and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the national/state/local authorities. The contractor shall abide and ensure compliances to terms and conditions of various approvals obtained for the project. He shall protect and indemnify the Department and it's officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks- of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.
- 1.37.** The fee payable to statutory authorities for obtaining the various permanent service connections and occupancy certificate for the building shall be borne by the Department.
- 1.38.** The rates for all items shall be considered as inclusive of pumping/baling out water, if necessary, for which no extra payment shall be made. The conditions shall be considered to include water from any source such as inflow of flood, rainwater, surface drainage, sewerage or due to any other reason including surface and sub-soil water etc. and shall apply to the execution in any season.

- 1.39.** Unless otherwise specified in the schedule of quantities, the rates tendered by the contractor shall be inclusive of all costs & taxes and shall apply to all leads, lifts, depth and height and nothing extra shall be payable on this account.
- 1.40.** For completing the work in time, the Contractor might be required to work in two or more shifts(including night shifts). Normally contractors shall not be allowed to execute the RCC, electrical and finishing work at night. Work at night shall, however, be allowed if the site conditions/circumstances so demand. No claim whatsoever shall be entertained on this account, not with-standing the fact that the contractor may have to pay extra amounts for any reason, to the labours and other staff engaged directly or indirectly on the work according to the provisions of the labour Act and other statutory bodies regulations and the agreement entered upon by the contractor with them.
- 1.41.** The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
- 1.42.** All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.
- 1.43.** The contractor(s) shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed. The stacking shall take place as per stacking plan however, if any change is required, the same shall be done with the approval of Engineer-in-Charge.
- 1.44.** The Contractor shall bear all incidental charges for all type of cartage/carriage upto execution site, storage and safe custody of materials issued by department/arranged by the contractor.
- 1.45.** The terms machine batched, machine mixed and machine vibrated concrete used elsewhere in agreement shall mean the concrete produced in concrete batching and mixing plant and if necessary, transported by transit concrete mixers, placed in position by the concrete pumps, tower crane and vibrated by surface vibrator /needle vibrator / plate vibrator, as the case may be to achieve required strength and durability.
- 1.46.** The work should be planned in a systematic manner so that chase cuttings in the walls, ceilings and floors are minimized. Wherever absolutely essential, the chase shall be cut using chase cutting machines. Chases will not be allowed to be cut using hammer / chisel. The electrical boxes should be fixed in walls simultaneously while raising the brick work. The contractor shall ensure proper coordination of various disciplines viz. sanitary & water supply, electrical, fire-fighting and any other services.
- 1.47.** The contractor shall be responsible for the watch and ward / guard of the buildings safety, fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.

1.48. SAFETY PRECAUTIONS

- (i) Contractor shall within two weeks of award of work, submit to the Engineer-in-Charge for his approval, list of measures for maintaining safety of man power deployed for construction.
- (ii) *Entry to the site shall be controlled for proper security of man and materials and to avoid accidents.*
- (iii) Necessary personal protective and safety equipment's such as helmet, safety shoes & harness, gloves etc. shall be provided to the all-site Engineers, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.
- (iv) The Contractor(s) shall take all precautions to avoid accidents by exhibiting necessary caution boards, day & night speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to existing/new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work.
- (v) In case of any accident of labours/ contractual staff's the entire responsibility will rest on the part of the contractor and any compensation under such circumstances if becomes payable the same shall be entirely borne by the contractor and department shall have no role on this account.
- (vi) It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
- (vii) Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machineries and materials have been arranged and closing of the trench(s) there after shall be ensured within the least possible time.
- (viii) *The contractor shall have to work in pandemic / epidemic conditions such as **COVID 19** for which he has to make safety arrangement / measures for the workers / staff and for the premises meant for them, as per guidelines issued by Government and directions issued by Engineer-in-charge from time to time and nothing extra shall be paid on this account.*

1.49. QUALITY ASSURANCE

- (i) The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- (ii) All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the particular

specification, the same shall be used after getting the same approved from Engineer-In-Charge. Wherever brand / quality of material are not specified in the particular specifications; the contractor shall submit the sample as per list of preferred make given in tender documents. For all other items, materials and fittings of ISI Marked shall be used with the approval of Engineer-In-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of Engineer-In-Charge.

- (iii) The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the item description in schedule of quantity and particular specifications for the work. The equivalent brand other than brand / make mentioned in particular specification for any item, shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contractor for non-availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge.
- (iv) Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to byelaws and municipal body / corporation where CPWD Specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body/Corporation authorities wherever required at his own cost. Nothing extra shall be paid on this account.
- (v) The tests, as necessary, shall be conducted in the laboratory approved by the Engineer-in-Charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.
- (vi) All the registers of tests (carried out at Construction Site or in outside laboratories) and all material at site (MAS) registers including cement register shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge. All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by JE/AE/AEE/EE. Contractor shall be responsible for safe custody of all the registers.
- (vii) The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the Engineer-in-Charge, at such time and to such places, as directed by the Engineer-in-Charge. Nothing extra shall be payable for the above.
- (viii) The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor. The Contractor or his

authorized representative shall remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.

- (ix) Unless specified otherwise, all the testing charges shall be borne by contractor.
- (x) All the hidden items such as water supply lines, drainage pipes, electrical conduits, sewers etc. are to be properly tested as per the design conditions before covering.
- (xi) The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
- (xii) The Contractor shall make available, on request from the Department, the copies of challan, cash memos, receipts and other certificates, if any, vouchers towards the quantity and quality of various materials procured for the work. The Contractor shall also provide information and necessary documentation on the name of the manufacturer, manufacturer's product identification, manufacturer's instructions, warning, date of manufacturing and test certificates (from manufacturers for the product for each consignment delivered at site), shelf life, if any etc., for the department to ensure that the material have been procured from the approved source and is of the approved quality, as directed by the Engineer-in-Charge. Wherever specified, day-to-day account of receipt of such material shall be maintained at site of work.
- (xiii) If the Contractor does not provide adequate supporting staff or labour or both for carrying out field tests or collecting and forwarding samples to outside laboratory or for maintaining test records, Engineer in charge may carry out field tests or collect and forward sample to outside laboratory or appoint any person to maintain the registers at risk and cost of Contractor. The charges so incurred shall be entirely borne by contractor and shall be deducted from Running or final bill of contractor. Further, ***recovery of Rs. 1000/- for each default shall be levied to contractor.***

1.50. PROGRAM /SCHEDULE

The Contractor shall prepare an integrated program chart including civil, electrical & mechanical, horticulture, landscaping activities for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the completion of the work within the stipulated period and submit the same for approval of the Engineer-In-Charge within fifteen days of the issuance of letter of acceptance. The integrated program chart so submitted should not have any discrepancy with the physical/financial milestones specified in this tender documents. The program chart should include the following: -

- i) Descriptive note explaining sequence of various activities.
- ii) Construction Program prepared on PRIMAVERA/ M.S. Project etc. Software, which will indicate resources in terms of materials, manpower and specialized equipment for every important stage.
- iii) Program for procurement of materials by the contractor.
- iv) Program for arranging and deployment of manpower both skilled and unskilled so as to achieve targeted progress.

- v) Program of procurement of machinery/equipment having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.
- vi) In case of noncompliance/delay in compliance, a recovery @ Rs. 5000/- per week or part thereof will be imposed which will be recovered from the immediate next R/A Bill of the Contractor.
- vii) If at any time, it appears to the Engineer-In-Charge that the actual progress of work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.
- viii) The submission for approval by the Engineer-In-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-In-Charge to take action against the contractor as per terms and conditions of the contract.

1.51. SUBMISSION OF PROGRESS REPORT:

Apart from the above integrated program chart, the contractor shall be required to submit fortnightly progress report of the work in a computerized form on 5th and 20th of every month. The progress report shall contain the following -

- a) Construction schedule of the various components of the work through a bar chart for the next two fortnights (or as may be specified), showing the micro-milestone/milestones, targeted tasks (including material and labour requirement) and up to date progress. At least 10 digital photographs showing all the parts of construction site along with at least 5 minutes video of executions of different items in soft copy has to be submitted in every fortnightly progress report.
- b) Comparative Progress chart of the various components of the work that were planned and achieved, for the fortnight, with reason for deviations, if any in a tabular format.
- c) Plant and machinery statement, indicating those deployed in the work.
- d) Man-power statement indicating:
 - Individually the names of all the staff deployed on the work, along with their designations.
 - No. of skilled workers (trade wise) and total no. of unskilled workers deployed on the work and their location of deployment within site.
- e) Financial statement, indicating the broad details of all the running account payment received up to date, such as gross value of work done, advances taken, recoveries effected, amount withheld, net payments details of cheque payment received, extra/substituted/deviation items if any, etc.

- f) In case of noncompliance / delay in compliance in submission of fortnightly progress report, a recovery @ Rs. 2000/- per report will be imposed which will be recovered from the immediate next R/A Bill of the Contractor.

1.52. TEMPORARY WATER/ ELECTRICITY/ TELEPHONE CONNECTION

- (i) Arrangement of temporary connection for telephone, water and electricity etc. by him, shall be made by the Contractor at his own cost and also necessary permissions shall be obtained by him directly from concerned authorities, under intimation to the Department. Also, all initial cost, running charges, and security deposit, if any, in this regard shall be borne by him. The Contractor shall abide by all the rules/ bye laws applicable in this regard and he shall be solely responsible for any penalty on account of violation of any of the rules / byelaws in this regard. The contractor may bring water from outside through tankers from authorized sources.
- (ii) The Contractor shall be responsible for maintenance and watch and ward of the complete installation and water / electricity meter. The contractor shall also be responsible for any pilferage, theft, damage, penalty etc. in this regard. The Contractor shall indemnify the Department against any claim arising out of pilferage, theft, damage, penalty etc. whatsoever on this account. Security deposit for the work shall be released only after No Dues Certificates are obtained from the local Authorities from whom temporary electric/ water / telephone connection have been obtained by the Contractor.
- (iii) The Department shall in no way be responsible for either any delay in getting electric and/or water and/or telephone connections for carrying out the work or not getting connections at all. Also, contingency arrangement of stand-by water & electric supply shall be made by the Contractor for commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of delay of any kind whatsoever shall be entertained on this account from the Contractor.

1.53. CLEANLINESS OF SITE

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

collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed.

- (iii) The site of work shall be always kept clean due to constraints of space and to avoid any nuisance to the users of buildings in the adjacent plots. The Contractor shall take all care to prevent any water- logging at site. The wastewater, slush etc. shall not be allowed to be collected at site. For discharge into public drainage system, necessary permission shall be obtained from relevant authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.
- (iv) It is the responsibility of contractor to keep building neat and clean. The contractor shall spray the chemicals fumigate site area to check the mosquitoes at frequent interval or as directed by the Engineer in charge. The contractor shall also make lighting and temporary ventilation arrangement in basement.
- (v) The contractor shall not wash the drum of TM (transit mixture) at site and shall avoid the spread of leachate / cement slurry to be spread at the site of work and all care shall be taken to keep the site neat and clean at his own cost.

1.54. INSPECTION OF WORK

- (i) In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by Senior Officers of department & the representative of the Consultants. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.
 - a) The consultant and third-party quality assurance agency appointed by department shall be inspecting the works including workshops and fabrication factory to ensure that the works are in general being executed according to the design, drawings and specifications laid down in the contract. Their observations shall be communicated by department to contractor and compliance shall be reported to department by the contractor.
 - b) Senior Officers of department, Dignitaries from Central Ministry / Department, shall be inspecting the on-going work at site at any time with or without prior intimation. The contractor shall, therefore, keep updated the following requirements and detailing.
 - i) Display Board showing detail of work, weekly progress achieved with respect to targets, reason of shortfall, status of manpower, wages being paid for different categories of workers.
 - ii) Keep entrance and surrounding area clean.
 - iii) Display layout plan, key plan, building drawings including plans, elevations and sections.

- iv) Upto date displays of progress of work in form of Bar chart, CPM and PERT etc.
- v) Keep details of quantities executed, balance quantities to be executed, deviations, possible Extra item, etc.
- vi) Keep plastic / cloth mounted one sets of building drawings.
- vii) Set of Helmets and safety shoes for exclusive use for officers/dignitaries visiting at site.

1.55. Employ measures to segregate the waste on-site into inert, chemical or hazardous wastes. Recycle the unused chemical/hazardous wastes such as oil, paint, batteries and asbestos. The inert waste is to be disposed off to Municipal Corporation/local bodies dump yard and landfill sites.

1.56. The contractor shall provide potable water for all workers. The contractor shall provide the minimum level of sanitation and safety facilities for the workers at site. The contractor shall ensure cleanliness of workplace with regard to the disposal of waste and effluent; provide clean drinking water and latrines and urinals as per applicable standard.

1.57. PREPARATION OF SAMPLE (MOCK UP)

The contractor shall prepare one sample/Mock-Up for typical units (e.g. Room / Lobby/ Corridor). Samples of representative units shall be prepared by the contractor well in advance before taking up the mass execution at the appropriate time as per mile stones. The contractor shall invariably prepare the samples units with finishing items i.e. flooring of different types, external & internal finishing i/c colour scheme of paint, tiles in dado, flooring in platforms & staircase, water supply & sanitary fittings and any other item as per direction of Engineer-in-charge. The contractor shall proceed with further finishing works only after getting the samples of these items approved in writing from Engineer-in-charge.

1.58. OTHER CONDITIONS W.R.T EXECUTION OF WORK

- a. The work shall be carried out in accordance with the contract specification/terms, tendered drawings and detailed drawings including revised drawings, if any, issued during execution of work by the Engineer-in-Charge.
- b. Before commencement of any item of work, the contractor shall correlate all the relevant architectural, structural and MEP drawings, and specifications etc. issued for the work and satisfy himself that the information available therefrom is complete and unambiguous. The figure and written dimension of the drawings shall be superseding the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement and execution of work based on any erroneous and or incomplete information and no claim whatsoever shall be entertained on this account.

- c. The contractor is required to deploy resources as per availability of site and as per approved programme chart of the work. However, no claims shall be entertained for idle labour, idle machinery, idle technical/no-technical staff, idle T&P etc.
- d. The work of services may be executed simultaneously. The Contractor shall minimize the scope of making recesses, holes, opening etc. as the same shall be planned in advance and necessary grooves/niches shall be provided in shuttering of RCC.
- e. Laminates on flush doors shall be machine pressed, preferably in factory. The design and pattern of laminates shall be as approved by engineer in charge.
- f. The Aluminium door-windows-framework, lamination and Lipping on flush doors shall be factory made.
- g. Unless otherwise specified, wherever mild steel / galvanized iron sections and pipes are provided in the work, priming coat of approved steel primer shall be done after removing rust from section if any and finally finished with low VOC synthetic enamel paint or as mentioned in specification.
- h. Wall mounted door stoppers shall be provided to protect the wall where the door handle would run into it.
- i. For avoiding of scratch marks or damage to the vitrified / ceramic floor tile, the necessary arrangement of hessian cloth with a coat of plaster of paris over it shall be provided. Nothing shall be paid extra on this account.
- j. Fall nets and scaffolding nets for protection from debris / dusts and noise etc. are to be provided during the construction period. Nothing extra shall be paid on this account.
- k. Wherever the doors are required to be fixed to AAC block masonry, the frame shall be fixed in RCC band or concrete block masonry.

1.59. It is intended to make our built environment barrier free and accessible to all. Bidders are instructed to strictly adhere to the provision contained in Hand Book on Barrier free and accessibility containing and corresponding provisions of NBC 2016 while incorporating such features in the building.

1.60. In case of reduction in scope of work, no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall be entertained

**LIST OF PREFERRED MAKE / MANUFACTURERS FOR DIFFERENT MATERIALS TO BE USED
FOR CIVIL AND FURNITURE WORKS**

S. NO.	DETAILS OF MATERIALS	MANUFACTURERS NAME
1	ANTI TERMITE PESTICIDES	BAYER, FMC INDIA, HINDUSTAN INSECTICIDES
2	STEEL (TMT FE-500D)	TATA., RINL, JINDAL STEEL & POWER LTD, JSW STEEL LTD., SAIL
3	STRUCTURAL STEEL SECTIONS	TATA, JINDAL, SAIL, RINL
4	CEMENT [OPC/PPC]	ACC, AMBUJA, ULTRATECH, WONDER
5	READY MIXED CEMENT CONCRETE	ACC, ULTRA TECH, AFCON
6	WHITE CEMENT	BIRLA WHITE, J.K. WHITE, ULTRATECH
7	VITRIFIED TILES (DOUBLE CHARGED / FULL BODY/ULTRA SLIM /ANTISKID / ACID-ALKALI RESISTANT)- (ALL TILES SHALL BE PROCURED FROM FULLY OWNED FACTORY OF THE MANUFACTURER AND NOT FROM JV / OUTSOURCED)	SOMANY, KAJARIA, NITCO, QUTONE
8	CERAMIC GLAZED TILES	SOMANY, KAJARIA, NITCO, QUTONE
9	WATER-PROOF CEMENT PAINT, SYNTHETIC ENAMEL PAINT, PLASTIC EMULSION PAINT, DISTEMPER/ACRYLIC EMULSION PAINT, TEXTURED PAINT, STEEL PRIMER, WOOD PRIMER, EXTERIOR WATERPROOFING PAINT, WOOD FINISH (MELAMINE & PU POLISH)	ASIAN PAINT, NEROLAC, ICICI, BERGER
10	PLY BOARD, PLYWOOD (PINE BOARD), LAMINATE, FLUSH DOOR (ALL FLUSH DOORS SHALL BE PROCURED FROM FULLY OWNED FACTORY OF THE MANUFACTURER AND NOT FROM JV / OUTSOURCED), PRELAMINATED PARTICLE BOARD	GREEN, MERINO, CENTURY, DURO
11	SELF LEVELLING COMPOUND	MAPAI, ARDEX ENDURA, BIZZAR
12	EPDM GASKET	HANU, ANAND, VICTOR
13	WOOD ADHESIVE	FEVICOL, 3M, ARALDITE, SIKA
14	FIRE SEALANT	HILTI, 3M, MCCOY
15	TILE ADHESIVE, STONE ADHESIVE, EPOXY GROUTING COMPOUND	PIDILITE, ARDEX ENDURA, WEBER,

S. NO.	DETAILS OF MATERIALS	MANUFACTURERS NAME
16	DASH, ANCHORING FASTENERS	HILTI, FISCHER, CANON
17	ALUMINIUM COMPOSITE PANEL	ALUCOBOND, REYNOBOND
18	READY MIX GYPSUM PLASTER	SAINT GOBAIN, USG BORAL, ULTRATECH
19	READY MIX CEMENT PLASTER	WEBER, ULTRATECH, BIRLA WHILTE
20	SILICON SEALANT	GE, DOW CORNING, PIDILITE
21	GYPSUM BOARD	USG BORAL, LAFAGE, SAINT GOBAIN, KNAUF DANOLINE
22	FLOAT GLASS, REFLECTIVE GLASS, TINTED GLASS, HIGH PERFORMANCE GLASS, LOOKING GLASS / MIRROR LACQUERED GLASS, HIGH PERFORMANCE GLASS, FIRE RESISTANT GLASS	MODI GLASS, SAINT GOBAIN GLASS
23	MECHANICAL COUPERS	USHA MARTIN, DEXTRA, HALFEN
24	CRYSTALLIANE CEMENTITIOUS WATERPROOFING COMPOUND	XYPEX CONSTRUCTION CHEMICAL, KRYTONE,
25	BITUMEN MEMBRANE FOR WATERPROOFING, HDPE MEMBRANE FOR WATERPROOFING, POLYUREA MEMBRANE FOR WATERPROOFING	SIKA, SAINT GOBAIN, SOPREMA, FOSROC PIDILITE
26	HOLLOW METAL PRESSED DOORS (METAL DOORS)	NAVAIR, TATA PRAVESH, SHAKTI HORMANN
27	ROLLER BLIND	VISTA, MAC, HUNTER DOUGLUS
28	HYDRAULIC DOOR CLOSER, FLOOR SPRING, DOOR AUTOMATION, HARDWARES FOR FIRE RATED DOORS, STAINLESS STEEL FITTINGS/HARDWARE FOR WOODEN/METAL/GLAZED/STEEL DOOR & WINDOWS, FRICTION STAY HINGES, HARDWARE FITTINGS FOR ALUMINIUM WINDOWS & DOORS	DORMA, GEZE, EBCO, HAFELE, HORMANN
29	ADHESIVE TAPE	3M, NORTON, TESA
30	HIGH PERFORMANCE EPOXY BASED RESIN ANCHOR SYSTEM	HILTI, FOSROC, CICO, SIKA
31	EPOXY MORTAR	FOSROC, SIKA, MYK LATICRETE, CICO
32	ALUMINIUM SECTIONS FOR DOORS & WINDOWS ETC.	JINDAL, HINDALCO, BHORUKA

S. NO.	DETAILS OF MATERIALS	MANUFACTURERS NAME
33	FABRICATOR FOR ALUMINUM WORK AND STRUCTURAL GLAZING WORK	SAPA, KALCO, TECHNAL
34	MS SECTIONS (PIPES, BOXES CHANNELS)	JINDAL HISAR, TATA,
35	S.S. MATERIAL/HADRAILS/RAILINGS	JINDAL STAINLESS STEEL LTD., TATA STEEL, SAIL
36	WALL PUTTY	JK, BIRLA, ASAIN PAINT
37	FLOOR HARDENER, POLYSULPHIDE SEALANT, WATERPROOFING COMPOUND, ADMIXTURES/CURING COUMPOUND	SIKA, FORSROC, PIDILITE, SOPREMA, DR FIXIT
38	EXPANSION JOINT	MIGUA, CS, CAMEO
39	METAL/ALUMINUM FALSE CEILING	SAINT GOBAIN, HUNTER DOUGLUS, ARMSTRONG
40	WPC (WOOD POLYMER COMPOSITE)	GREENPLY, CENTURY, RAJSHREE
41	AAC BLOCK ADHESIVE	ARDEX ENDURA, PIDILITE, WEBER
42	UPVC WINDOWS	FENESTA, ALUPLAST, KOENMERLING
43	VINYL / CONDUCTIVE FLOORING, DADO SKIRTING	FORBO, TARAKETT, ARMSTRONG, GERFLOOR
44	CALCIUM SILICATE TILES FALSE CEILING	AEROLITE, RAMCO, HILUX
45	FIRE CHECK DOORS (METAL/ROLLING/GLAZED)	NAVAIR, TATA PRAVESH, SHAKTI HORMANN, 4C FIRE PROTECTION PVT LTD
46	ACOUSTIC SEAL / DOOR SEAL	LORIENT, RAVEN, DORMA, 3M, HAFELE
47	INTUMESCENT FIRE / SMOKESEAL	ASTRO FLAME, RAVEN, SEALZ, LORIENT
48	CALCIUM SILICATE BOARD FOR FIRE DOOR	PROMOTECH, PROMINA, RAMCO
49	POLYCARBONATE SHEET	DANPALON, SOLALITE, DPI, ULTRALITE, LEXAN
50	GI PIPES	JINDAL HISAR, TATA
51	GI FITTINGS	UNIK, TATA
52	CPVC PIPES	ASTRAL, PRINCE, SFMC
53	HDPE PIPES	SUPREME, FINOLEX, ASTRAL, RELIANCE,
54	SOIL, WASTE, VENT PIPES & FITTINGS	ASTRAL, PRINCE, SFMC
55	C.P. BRASS FITTING AND	JAQUAR, ROCA, KOHLER, KEROVIT

S. NO.	DETAILS OF MATERIALS	MANUFACTURERS NAME
	ACCESSORIES	
56	SS SINK	NILKANTH, NIRALI, JAYNA
57	SANITARY WARE (URINAL, WASH BASIN, WC ETC.)	JAQUAR, GROHE, KOHLER, KEROVIT
58	GLASS MOSAIC TILE	ITALIA, CORAL, KAJARIA
59	FAÇADE AND WINDOW SYSTEM	SCHUCO, ALUK, REYNAERS, GUTMANN
60	FIRE STOP IN CURTAIN WALL SYSTEM	HILTI, 3M, FISCHER, LORIENT
61	POP OUT VENT FOR FAÇADE AND SYSTEM WINDOW HARDWARE	COTSWOLD, SCHUCO, ALUK, REYNAERS
62	ALUMINIUM OPERABLE LOUVER	TECHNAL, DOMAL, YOGI GLAZE, SCHUCO
63	AIR TRANSFER GRILL	RUSKIN, SYSTEM AIR, TROX, TREMCO
64	ENGINEERED WOODEN FLOORING AND SKIRTING	MIKASA (GREENLAM), TARKETT, HAVWOODS, PARADOR (HIL), PERGO, KAHRS
65	ENGINEERED MARBLE	HR JOHNSON, KALINGA STONE, NITCO, ASIAN
66	SS TACTILE	EMINENT, FERROTECH, SUNDARAM, JINDAL
67	BAMBOO DECKING, ROOFING & CLADDING	ECO GREEN FLOORING, EPITOME BAMBOOWOOD, LAMIWOOD
68	OUTDOOR SIGNAGES	3M, AVERY DENNISON, VEDAAANSHI SIGNS
69	ACOUSTIC PANELS	ARMSTRONG, USG BORAL, ANUTONE
70	WEATHER/STRUCTURE SILICON SEALANT	WACKER, MCCOY, DOW CORNING
71	BACKER ROD	SUPREME/SYSTRANS
72	POLYSTRENE BOARD	SUPREME, DOW CORNING, TEXAS, PIDILITE
73	DUCTILE IRON PIPES	ELECTROSTEEL, KESORAM, TISCO
74	STAINLESS STEEL PIPES AND FITTINGS	JINDAL STAINLESS STEEL, J-PRESS ALFA PRESS
75	SLUICE VALVES, GATE / BALL VALVES	ZOLOTO, KIRLOSKAR, LEADER
76	FURNITURE	HERMAN-MILLER, HAYWORTH, STTEL CASE, ROCKWORTH, GODREJ, DURIAN

Note: - The articles / materials which are not mentioned in the above said list shall be approved by the Engineer-in-Charge before execution of work.

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION OF SPECILAISED WORKS

The agreement made this..... day of (Two Thousand---- only) betweenS/o(hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated and made between the GUARANTOR OF THE ONE PART AND the Government of the other part whereby the contractor inter alia undertook to remove all the defects in(name of specialized work) in said contract completely.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain intact without any defect for (No. of years) from the date of completion of the work.

NOW THE GUARANTOR hereby guarantee that the works executed by him will remain intact and full functional without any defects of any kind for(No. of years) to be reckoned from the date of completion of work under the contract.

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

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

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

amount of loss and/or damage and / or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

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

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

1. 2.

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

1. 2.

Schedule of Quantity

Schedule of Work

Name of work: - Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil Works)

Sl. No.	Sub-heads and item of work	Qty	Unit	Rate	Amount
1	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.	400.00	Kg	162.15	64,860.00
2	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	500.00	Kg	114.08	57,039.00
3	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.	2620.00	Kg	129.97	3,40,529.00
4	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.				
4.1	Hot finished welded type tubes	700.00	Kg	188.98	1,32,287.00
5	Welding by gas or electric plant including transportation of plant at site etc. complete.	5000.00	Cm	3.60	17,984.00

6	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
6.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	4901.00	Kg	167.79	8,22,332.00
7	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480N/mm ²), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame, concrete/ masonry, etc. as per direction of Engineer-in-charge.				
7.1	10 x 120 mm	345.00	Each	166.18	57,334.00
8	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				
8.1	Two or more coats on new work	500.00	Sqm	151.55	75,777.00
9	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
9.1	One or more coats on old work	629.00	Sqm	99.93	62,859.00
10	Dismantling aluminium/ Gypsum partitions or modular partition walls, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge.	47.00	Sqm	54.78	2,575.00
11	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.	2.00	Cum	256.59	513.00

12	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5 mm thick) wire of high tensile strength of 165 kg/ sq. mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	360.00	Mtr	365.32	1,31,517.00
13	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 / panelling, 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) :				
13.1	For fixed portion				
13.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	144.00	kg	516.10	74,319.00
14	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)				

14.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	81.00	kg	616.76	49,958.00
15	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete.	7.20	sqm	4858.39	34,980.00
16	Providing & fixing Zebra blinds dully made out of 100% Polyster fabric of 0.75mm ± 5% thickness & 118.49/m ² ± 5% weight, including providing and fixing all accessories i.e screw, roller etc. and making the necessary arrangement for proper functioning of blinds etc all complete as per direction of Engineer-in-charge.	34.00	Sqm	4775.75	1,62,376.00
17	Providing and fixing 10 mm thick frameless froasted toughened glass (Froasting of glass shall be done by chemical) partition of approved brand and manufacture, the glass shall be fixed with necessary connector as per site requirement (L/90 degree / 180 degree), screw etc. above partition wall (top finish of partition wall shall be wood/stone), or as required location, all complete as per direction of engineer-in-charge. (Note The cost of connectors shall be paid separately).	23.00	Sqm	4341.20	99,848.00
18	Providing and fixing Stainless Steel lock (wall to glass, of grade 304, chrome / matt finish) for glass door shutter of approved brand quality & make with necessary screws including making required hole for fixing of lock etc. all complete as per direction of engineer in-charge.	5.00	set	2523.40	12,617.00
19	Providing and fixing Stainless Steel handles (of 304 grade, matt / crome finish and back to back) of approved quality & make with necessary screws, including making required holes for fixing of handles etc. for glass door all complete as per direction of				

	engineering in-charge.				
19.1	Handle D Type 300mm long CTC and 25 mm Diameter	5.00	set	2027.75	10,139.00
20	Providing and fixing frame work for partitions/ wall lining etc. made of hollow Alumunium section, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening or as per direction of Engineer-in-charge fixing the frame to wall/ ceiling/ floors with necessary Stainless Steel screw, Alumunium angle cleat etc. as required at junctions and as per site requirement including making provision for opening for doors, windows, electrical conduits, switch boards etc. complete, as per direction of Engineer-in-charge.				
20.1	Anodised aluminium, anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15	357.00	Kg	428.95	1,53,135.00
21	Providing and fixing plain lining with necessary screws/nuts & bolts/ nails, and fixed on wooden /Aluminium/steel frame work complete as per direction of Engineer-in- charge (Frame work shall be paid for separately).				
21.1	12 mm thick commercial ply conforming to IS : 710 BWP type and plyboard also shall be Fire retardant plywood conforming to IS: 5509	97.00	Sqm	1799.85	1,74,585.00

22	<p>Providing and fixing 6mm thick High Pressure Interior Compact laminate made out of thermosetting resin treated Kraft as core material and design paper as a finish surface on both sides of required colour, pattern and shade in wall lining fixed over aluminium frame /ply board with adhesive or Metal dash fasteners or rivets colour matching with laminate, or as per site requirement and directions of engineer-in-charge. Compact laminates will be resistant to water immersion through permissible increase on thickness and mass <0.60% and board should have density >1.35kg/cm³. Compact should be flame retardant fulfilled the criteria of under BS-476/97 and EN438-6 with classification of BS1D0 standard property with Anti-Viral, Anti-bacterial & Antitermite (under JIS Z2801:2000 certification), Chemical resistance, Scratch resistant, flame resistance, weather & climatic shock resistance (the contractor will provide 10 years warrantee certificate on any manufacturing and moisture related defects)</p> <p>(Note: Cost of Aluminium frame/ply board will be paid separately).</p>	93.00	Sqm	3535.85	3,28,834.00
23	<p>Providing and fixing 18mm thick gang saw out mirror polished machine cut for top of wooden wall, facias and similar locations of regulated size of approved shade, colour and texture laid over wood and stone fixing Adhesive (Araidle or equivalent) with joints treated with mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. all complete as per direction of engineering in-charge (at all levels)</p>				
23.1	Granite stone slab of all colour and texture except black, Cherry/Ruby red				
23.1.1	Area of slab upto 0.50 sqm	2.50	Sqm	3940.30	9,851.00
23.1.2	Area of slab over 0.50 sqm	3.10	Sqm	3717.05	11,523.00

24	Providing and fixing stainless steel Hinges (of 304 grade, crome / matt finish) glass to wall bracket 90 degree double sided with back plate, for glass door shutter of approved quality & make with necessary screws including making necessary required holes / cutout in glass for fixing of hinges etc. all complete as per direction of engineering in-charge.				
24.1	Size of base plate shall be 80 x 40 (minimum) and 45 x 18 mm (minimum)	20.00	Each	2620.30	52,406.00
25	Providing and fixing stainless steel connector (of grade 304) for fixing of partition glass in wall (connector shall be suitable for 10 mm / 12mm thick toughened glass and matt / chrome finish) of approved quality & make with necessary screws, adhesive including making required holes for fixing of connectors etc for glass Partition, all complete as per Engineer-in-charge.				
25.1	Wall to glass - 90 degree	70.00	Each	964.70	67,529.00
26	Providing and fixing stainless steel connector (of grade 304) for fixing of partition glass in wall (connector shall be suitable for 10 mm / 12mm thick toughened glass and matt / chrome finish) of approved quality & make with necessary screws, adhesive including making required holes for fixing of connectors etc for glass Partition, all complete as per Engineer-in-charge.				
26.1	Glass to glass -180 degree	6.00	Each	1200.00	7,200.00
27	Providing and fixing 10 mm thick frameless froasted toughened glass door shutter (Toughening of glass shall be done by chemical) of approved brand and manufacture, all complete as per direction of Engineer-in-charge (Door handle, lock, making holes for fixing of handal, lock, hinges and stopper etc.to be paid separately).	11.00	Sqm	4565.55	50,221.00

28	Drilling suitable holes of 22 mm dia in reinforced or plain cement concrete with power driven drill machine to a minimum depth 300 mm in RCC columns and slabs/Beam to introduce 20 mm dia Anchor rod (300 mm long Hilty Anchor V5.8 HIT-Z M 20X300) including fixing the bolts in position using appropriate anchor grout (HIT-RE-500 V4) of approved make all complete as per direction of Engineer-in-charge.	24.00	Each	9,247.70	2,21,945.00
29	Providing and fixing multi walled four(04) or more layer poly carbonate sheet panel co-extracted ultra violet (UV protective coating on external surface with extending seam on both the running ends). The light transmission from transparent or translucent/opaque/opal white polycarbonate sheet varies from 30 to 80% and or shall be decided by engineer in charge as per requirement. The panel shall satisfy the Dart drop impact test for value above 15 and upto 60 Joules and confirm either flame retardancy of class UL-94HB/94V-0 category as per IS14434:2023 or category VO & HB as per ASTM D635-18 or BS1D0 classification as per EN13501 for fire safety. The yellowness index tested as per ASTM E313 (D1925) or ASTM 313 (D1925) shall be equal 2 or it shall be one unit as per ASTND 2244 at the time installation and shall be less than or equal to 10 as per ASTM 313 (D1925) or 6 units as per ASTM D 2244 on a sample after 5000 Hours of exposure of UV / sun light. The multi walled poly carbonate sheet shall be fixed on steel structure with aluminium Alcox section of size 60x18x2 mm (anodized 25 micron thick) and weight not less than 0.462 kg/metre. Weather proof Neoprene/ EPDM rubber gasket shall be fixed on both side of joints to make the whole structure water tight as per approved design/drawings. The aluminium section shall be fixed on				

	<p>Joints at both sides (top & bottom) of polycarbonate sheet to hold the sheets rigidly together. The weather proof neoprene gasket and aluminium profile shall be fixed and sealed with silicon sealant to make the Joints fully water proof. The open overhead ends of polycarbonate sheet to be sealed with anodised aluminium U Profile/ channel of size 10x10x 1.5 mm thick of weight not less than 0.2kg/m. The polycarbonate sheet and aluminium profile shall be fixed to MS Framed Structure with self-taping and self-drilling 55mm long steel screws to be fixed @ 300mm (maximum) centre to centre. The rate shall be inclusive of cost of all material involved such as polycarbonate sheet, aluminium profile and aluminium channel, EPDM gasket, Self-taping screws, nut bolts. Silicon sealant or any other material required for fixing the sheet but excluding the cost of steel structure which shall be paid separately including hoisting the sheets and fixing in position in required scaffolding shape. The rate shall also include the cost of all T & P scaffolding and safety precautions required during execution of the work. The entire work shall be executed as per required design / drawings and direction in Engineer in-charge, all complete. (The contractor will provide 10 years warrantee certificate on highly effective protection against weathering)</p>				
29.1	12 mm thick and U value not more than 2.50 W/m ² K and weight not less than 2.40 kg/sqm.	1098.00	Sqm	1,584.45	17,39,726.00

30	<p>Providing and fixing of 50mm thick PUF (Poly Urethane Foam) insulated roof sheet/panel of density of 40+2 kg/cum laminated with precoated G.I. sheet outside and inside of sheet/skin. PUF sheet sandwich between PPGI (Pre Painted Galvamoized Iron) Sheet. The panels shall be made of profiled PPGI sheet with depth of cres-28 to 50mm, Pitch 195 to 250 mm, trapezoidal sheet on top and micro ribbing PPGI sheet on bottom with 50 mm thick layer of rigid CFC free polyurethane foam of density of 40+2 kg/m3 as insulation. PPGI sheet shall minimum 0.50mm thickness and have minimum coating of 4- 5 micron epoxy primer and 18-20 micron polyster top coat on the finish surface and 4-7 micron primer alkyi base on reverse. The sheet shall be fixed using self drilling/ self tapping screws 100mm or required size of appropriate size with EPDM seal complete upto any pitch in horizontal/ vertical or cured surface, excluding the cost of pulins, rafters and truses and including cutting to size and shape wherever required as per the direction of Engineer-in-charge</p>	40.00	sqm	2,434.65	97,386.00
	Total		51,24,184.00		

PART-C

ADDITIONAL CONDITIONS, ADDITIONAL SPECIFICATIONS AND SCHEDULE OF QUANTITIES APPLICABLE TO ELECTRICAL AND MECHANICAL COMPONENT OF THE WORK

General Commercial & Technical Conditions:

- 1.0 All the works shall be carried out as per CPWD General specification for Electrical Works, Part-I (Internal) 2023 & Part-II (External) 2023, amended up to date and should also comply with relevant provisions of the Indian Electricity Rules and Acts as applicable, amended up to date.
- 2.0 The contractor is advised to visit the site of work to have an idea of the execution of the work; failure to do so shall not absolve their responsibility to do the work as specified in agreement.
- 3.0 **Rates:**
 - 3.1 The work shall be treated as on works contract basis and the rates tendered shall be for complete items of work (except the materials, if any, stipulated for supply by the department) inclusive of all taxes (including GST), duties, and levies etc. and all charges for items contingent to the work, such as packing, forwarding, insurance, freight and delivery at site for the materials to be supplied by the contractor, watch and ward of all materials (including those supplied by the department, if any) for the work at site etc
 - 3.2 Prices quoted shall be firm
- 4.0 **Taxes and Duties:**
 - 4.1 Being an indivisible works contract, any taxes (including GST), duties, and levies etc. are not payable separately.
 - 4.2 The Goods and service tax (GST) shall be deducted from the bills of the contractor as applicable in the State in which the work is carried out, at the time of payments.
- 5.0 **Mobilization Advance:**

No mobilization advance shall be paid for the work, unless otherwise stipulated in tender papers for any individual works/ composite work.
- 6.0 **Completeness of Tender:**

All sundry fittings, assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections as required, and all other sundry items which are useful and necessary for proper assembly and efficient working of the various components of the work shall be deemed to have been included in the tender, whether such items are specifically mentioned in the tender documents or not.
- 7.0 **Works to be arranged by the department:**

Unless and otherwise specified in the tender documents, the following works shall be arranged by the Department:

 - a) Supply of materials to the contractor if stipulated in the tender documents.
- 8.0 **Works to be done by the contractor:**

Unless and otherwise mentioned in the tender documents, the following works shall be done by the contractor, and therefore their cost shall be deemed to be included in their tendered cost:-

- a) Foundations for equipment and components where required, including foundation bolts.
- b) Cutting and making good all damages caused during installation and restoring the same to their original finish.
- c) Sealing of all floor openings provided by him for pipes and cables, from fire safety point of view, after laying of the same.
- d) Painting at site of all exposed metal surfaces of the installation other than pre-painted items like fittings, fans, switchgear/distribution gear items, cubical switchboard etc. Damages to finished surfaces of these items while handling and erection, shall however be rectified to the satisfaction of the Engineer-in-Charge.
- e) Testing and commissioning of completed installation.
- f) Storage space for all equipment, components and materials for the work

9.0 Tools for handling and Erecting:

All tools and tackles required for handling of equipment and materials at site of work as well as for their assembly and erection and also necessary test instruments shall be the responsibility of the contractor.

10.0 Payment Terms:

Payment shall be made as per the relevant terms of the agreement.

11.0 Co-ordination with other agencies:

The contractor shall co-ordinate with all other agencies involved in the building work so that the building work is not hampered due to delay in his work. Recessed conduit and other works, which directly affect the progress of building work, should be given priority.

11.1. Care of buildings:

Care shall be taken by the contractor to avoid damage to the building during execution of his part of the work. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove, at his costs, all unwanted and waste materials arising out of his work, from the site.

12.0 Structural Alterations to Buildings:

- a) No structural member in the building shall be damaged/altered, without prior approval from the competent authority through the Engineer-in-charge.
- b) Structural provisions like openings, cutouts, if any, provided by the department for the work, shall be used. Where these required modifications, or fresh provisions are required to be made, such contingent works shall be carried out by the contractor at his cost.
- c) All such openings in floors provided by the department shall be closed by the contractor after installing the cables/conduits/rising mains etc. as the case may be, by any suitable means as approved by the Engineer-in-charge without any extra payment.

- d) All chases required in connection with the electrical works shall be provided and filled by the contractor at his own cost to the original architectural finish of the buildings.

13.0 **Addition to an installation:**

Any addition, temporary or permanent, to the existing electrical installation shall not be made without a properly worked out scheme/design by a qualified Electrical Engineer to ensure that such addition does not lead to overloading, safety violation of the existing system.

14.0 **Work in occupied buildings:**

- a) When work is executed in occupied buildings, there would be minimum of inconvenience to the occupants. The work shall be programmed in consultation with the Engineer-in-charge and the occupying department. If so required, the work may have to be done even before and after the office hours.
- b) The contractor shall be responsible to abide by the regulations or restrictions set in regard to entry into, and movement within the premises.
- c) The contractor shall not tamper with any of the existing installations including their switching operations or connections there to without specific approval from the Engineer-in-charge.

15.0 **ELIGIBILITY CRITERIA FOR ASSOCIATE AGENCY:** The Composite category contractor is also eligible to carry out electrical and mechanical services works himself/herself without associating any specialized agency provided he fulfils the prescribed eligibility criteria respectively for these work(s) as mentioned below:

a) **Eligibility Criteria for Automation of Motorized Gate: -**

Agency should have satisfactorily completed the similar works as mentioned below during the last 7 years ending last date of month previous to the one in which tender is invited.

Three similar completed works each costing not less than 40% of the estimated cost put to tender.

OR

Two similar works each costing not less than 60% of the estimated cost put to tender.

OR

One similar works each costing not less than 80% of the estimated cost put to tender.

Similar work shall mean “**Automation of Motorized Gate**”.

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 bids.

ADDITIONAL SPECIFICATIONS FOR ELECTRICAL WORKS

1.0 GENERAL

- 1.1 The work shall be carried out strictly in accordance with CPWD specifications for Electrical Works 2023 (Internal) and 2023 (External) as amended up to date and in accordance with Indian Electricity Rules, 1956, Indian Electricity Act, 1910 as amended up to date and as per instructions of the Engineer-in-Charge.
- 1.2 All hardware items such as screws, thimbles, and steel wires etc. required for completing an item as per specifications are deemed to have been included in the item even if not specifically mentioned in the item.
- 1.3 All hardware materials such as MS nuts / bolts / screws / washers etc, to be used in the work shall be zinc coated / cadmium plated.
- 1.4 All conduits shall be provided with G I fish wire for wiring, failing which recovery shall be made @ Rs. 10 per metre of conduit. While laying conduit, suitable junction boxes shall be provided wherever required for pulling the wires. Nothing extra shall be paid for fish wire and junction boxes.
- 1.5 The contractor shall ensure that chase cutting machine is used for cutting chases for laying of conduit.
- 1.6 Flexible conduits may be used only for interconnection between point and fitting in false ceiling.
- 1.7 Telescopic rigid conduit may be used at expansion joints.
- 1.8 The work is to be carried out as per approved drawings. The contractor should study the drawings issued by the engineer-in-charge and modifications, if any, required to comply with the specifications, standards, and statutory rules shall be incorporated and got approved from the engineer-in-charge before execution.
- 1.9 The contractor shall make his own arrangements for temporary electricity and water connection, if required and make necessary payment including electricity and water charges for its use direct to the authority concerned. The engineer-in-charge will provide all possible assistance by way of reasonable recommendation for obtaining electricity connection to the concerned authorities but bears no responsibility for the same.
- 1.10 The contractor shall ensure that the skilled labour such as electrician, wireman engaged in the execution of work possess valid license issued by appropriate authorities. The wireman / electrician not having valid license shall not be permitted to work.
- 1.11 All chases, holes, recesses etc. for conduits and other allied work shall be made good to the original finish.
- 1.12 The electrical fittings in areas of false ceiling/drop ceiling are required to be suspended/secured from ceiling with suitable hanging arrangement of galvanized iron chains / dash fasteners. The opening/ slit for fittings in false ceiling shall be provided by the agency executing the item of false ceiling. However, fixing of electrical fittings in the said opening / slit in a straight line, flush with the false ceiling shall have to be ensured by the contractor.

2.0 MATERIALS AND TESTING

- 2.1 Acceptable makes of materials to be used in the work are enclosed. In case of non-availability of these makes, the engineer-in-charge may allow use of alternative makes.

Only ISI marked materials shall be used in the work. Non ISI marked materials may be permitted by the engineer-in-charge only when ISI marked materials are not manufactured.

- 2.2 The sample of the materials shall be submitted in advance to the engineer-in-charge and got approved before dispatch to the site of work. The contractor shall produce original invoice for procurement of electrical accessories, etc. from manufacturers or from their authorized dealers for authentication.
- 2.3 The contractor shall take prior permission from the engineer-in-charge regarding location for storage and stacking of materials required for the work at site. The cost of construction of store and watch and ward charges shall be borne by the contractors.
- 2.4 Copper wire up to 1.5 sq. mm may be of single strand whereas wires above 1.5 sq.mm shall be multi strand conductor and shall be terminated at both the ends with suitable size of copper thimbles / lugs. Nothing extra shall be paid for the same.
- 2.5 All the DBs and switch gears shall have description of circuits and sub-mains in black paint. Nothing extra shall be paid on this account.
- 2.6 Testing of electrical installations shall be completed at least 30 days before the scheduled completion date of the work so that all necessary adjustments are carried out and trial runs completed before the work is treated as complete and the equipment are taken over by the department.
- 2.7 All the electrical equipment shall be brought to site when the site is available for installation, with prior permission of the engineer-in-charge.
- 2.8 The conduits for a large number of services may be required to be laid / embedded in RCC slab/walls or fixed on surface/cable trays. To enable identification of conduits of different services proposed in the building, the ends of conduits in junction boxes shall be painted as per the following colour schemes without any extra cost.
 - i) Conduits for non-essential wiring : Black
 - ii) Conduits for essential wiring : Blue
 - iii) Conduits for inverter wiring : Light Green
 - iv) Conduits for UPS wiring : Dark Green
 - v) Conduits for fire alarm system : Red
 - vi) Conduits for data/communication : Yellow
 - vii) Conduits for public address, talk back system : Pink

2.9 **Guarantee:** - At the close of the work and before issuance of final certificate of provisional completion by the Engineer-in-charge/ Consultants, the Contractor shall furnish written guarantee indemnifying the owner against defective materials and workmanship for a period of one year after completion. The Contractor shall hold himself fully responsible for reinstallation or replacement, free of cost to owner, the following:

- (a) Any defective work or material supplied by the Contractor.
- (b) Any material or equipment supplied by the owner which is damaged or destroyed as a result of defective workmanship by the Contractor.
- (c) Any material or equipment damaged or destroyed as a result of defective workmanship by the Contractor.

Scope of Work:

- a) Contractor shall submit the samples / catalogues of each material/ equipment giving technical data/ detail. Only after written approval of sample/ catalogues, the contractor shall place the order.
- b) Preparation of shop drawings. Contractor shall submit the detailed shop drawings after coordinating with the civil wing.
- c) Before starting of the work at site the contractor shall examine all service drawings and report to Architect/ Consultants for discrepancies and obtain clarifications. Any work done without regard of consultation with other trades, shall be removed by the contractor without additional cost to owner.
- d) Testing & commissioning of systems including submission of test report.
- e) Contractor shall submit as installed drawings, operation & maintenance manual for all equipment / operations etc. Framed operation and maintenance instructions shall be provided in plant room.
- f) Procurement of all the materials shall be done after the approval of the Engineer-in-charge.

Defect Liability period (Guarantee Period)

- ~~1. All the complaints have to be attended on priority basis within 24 hours otherwise a penalty of Rs 5000/- per day will be recovered for which a complaint register should be maintained by the agency which will verified and signed by Engineer in charge or his representative.~~
- ~~2. Necessary updates of all software should be installed free of cost when available.~~
- ~~3. System should be protected against any malwares/viruses with latest antivirus.~~
- ~~4. Agency will carry out free of cost periodic checks/repair/service of the complete system frequency of checks/repair/service will be decided by Engineer in charge for which a register should be maintained which will verified and signed by Engineer in charge or his representative.~~
5. Guarantee period for this work will be **1 years**, which includes free of cost replacement of defective parts. The company will be selected on the basis of this provision.
6. No T & P shall be issued by the department & cost of consumable materials will be borne by the contractor.
- ~~7. The agency should provide the Escalation matrix of the specialized agency for effective complaint resolution along with dedicated toll free number.~~
8. **Five years (01) guarantee bond** in prescribed Performa attached at **Annexure-I** herewith shall be submitted by the contractor which shall also be signed by both the specialist agency and the contractor to meet their liability / liabilities under the guarantee bond. However, the sole responsibility shall rest with the building contractor.

- i) Nomenclature of items as per Schedule of Quantities
- ii) Special/Additional Conditions
- iii) Particular Specifications
- iv) Architectural/Structural drawings
- v) CPWD Specifications including upto date correction slips.
- vi) CPWD General Conditions of Contract (2023) for Maintenance works including correction slips issued up to last date of submission of bid including extensions if any.
- vii) Indian Standards Specifications of B.I.S.
- viii) ASTM, BS, or other foreign origin code mentioned in tender document.
- ix) Manufacturer's specifications and as decided by the Engineer-in-Charge.
- x) Sound Engineering practices or well-established local construction practices

LIST OF PREFERRED MAKES OF MATERIALS

SL. NO.	ITEMS	MAKES
	ELECTRICAL INSTALLATIONS	
1	PVC INSULATED FRLS COPPER CONDUCTOR SINGLE/ MULTI CORE CABLE/ TELEPHONE CABLE	POLYCAB/ KEI/ HAVELLS/ FINOLEX
2	MS CONDUIT AND ACCESSORIES	AKG/BEC/ NIC
3	PVC CONDUIT AND ACCESSORIES	BEC/ PRECISION/ NORPACK/ANCHOR
4	MODULAR/ PIANO SWITCH & SOCKET/ USB CHARGER/ TELEPHONE SOCKET/ TV SOCKET/ FAN REGULATOR/ BELL PUSH/	LEGRAND/ SCHNEIDER / MK / ABB /PANASONIC/ ANCHOR
5	ANCHOR FASTENER	HILTI/ 3M/ FISCHER
6	UPVC/ HDPE PIPE/DWC	DURALINE/ REX/ TIRUPATI
7	GI Box	MK/ SCHNEIDER/ LEGRAND
8	GI PIPE	TATA/ JINDAL (HISAR)/ JINDAL (STAR)
9	1.1 KV GRADE XLPE ALUMINIUM/ COPPER UG CABLE	POLYCAB/ KEI/ HAVELLS/ FINOLEX
10	MCCB/ DB/ MCB/ RCCB/ ISOLATOR	SCHNEIDER/ HAGER/ SIEMENS/ ABB/ L&T/ HAVELLS
11	LED FITTINGS/ STREET LIGHT FITTINGS/ FLOOD LIGHT FITTINGS	HAVELLS/ PHILLIPS/ WIPRO/ LT/ REGENT
12	LED DRIVER	AS PER THE LED FITTINGS
13	CEILIGN FAN/ WALL FAN/ AIR CIRCULATOR/ EXHAUST FAN	HAVELLS/ USHA/ ORIENT/ CROMPTON
14	POLE BOX	SINTEX/ HENSEL
15	CALL BELL/ BUZZER	ANCHOR/ MK/ KINJAL
16	CAT-6 UTP CABLE/ CAT-6A UTP CABLE/ UTP PATCH CORD	D-LINK/PANDUIT/ BELDEN / 3C3 / DERWISER
	AUTOMATION OF MOTORIZED GATE	
17	SLIDING GATE AUTOMATION/ SWING GATE AUTOMATION/ MECHANICAL HARDWARE KIT/ TELESCOPIC KIT	BFT (Somfy)/ Roger Technology/ KEY Automation

Note: - Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi reserves the right to add or delete any materials and Brands in the list of approved materials/brands.

SCHEDULE OF QUANTITY FOR ELECTRICAL WORK

Schedule of Work

Name of work :- Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi (SH: Electrical Works)

S No	Description of Items	Qty	Unit	Rate	Amount
	EI & FANS				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required				
a	Group C	10	Point	2037.97	20,380.00
2	Wiring for light/ power plug with 2X4 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	10	Mtr.	465.60	4,656.00
3	Wiring for light/ power plug with 4X4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 2 Nos. 4 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable for loop earthing as required.	10	Mtr.	702.28	7,023.00
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.			0.00	
a	3 x 1.5 sq. mm	60	Mtr.	100.88	6,053.00
b	3 x 4 sq. mm	170	Mtr.	215.34	36,608.00
c	6 x 4 sq. mm	300	Mtr.	411.28	1,23,384.00

5	Supplying and drawing following pair 0.5 mm dia FRLS/HFFR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	4 Pair	425	Mtr.	51.41	21,849.00
6	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
a	20 mm	105	Mtr.	246.38	25,870.00
b	25 mm	590	Mtr.	280.33	1,65,395.00
7	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a	5/6 A switch	5	Each	117.37	587.00
b	15/ 16A Switch	20	Each	170.72	3,414.00
c	3 pin 5/6 amp socket outlet	32	Each	131.92	4,221.00
d	6 pin 15/16 A socket outlet	11	Each	212.43	2,337.00
e	Telephone socket outlet	15	Each	162.96	2,444.00
8	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	11	Each	45.59	501.00
9	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
a	3 Module (100mmX75mm)	10	Each	372.48	3,725.00
b	6 Module (200mmX75mm)	8	Each	448.14	3,585.00
c	8 Module (125mmX125mm)	9	Each	501.49	4,513.00

10	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 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	11	Each	639.23	7,032.00
11	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, 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	8-way, Double door	1	Each	2689.81	2,690.00
12	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	4 way (4 + 12), Double door	2	Each	4245.69	8,491.00
13	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.				
a	Single pole	30	Each	276.45	8,294.00
14	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	8	Each	13.58	109.00
15	Supplying and fixing following rating, double pole, 240V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	40 A	1	Each	457.84	458.00
16	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

a	63 A	2	Each	1081.55	2,163.00
17	Supplying and fixing Cable End Box (Loose wire box) (IP 43) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with testing and commissioning etc. as required.				
a	For 4 way, Double door TPN MCBDB	2	Each	1141.69	2,283.00
18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	45	Mtr.	48.50	2,183.00
19	LED Batten light (System lumen efficacy ≥ 105 <120 lm/Watt). Supplying, Installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85%, Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 °C to 40 °C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10%, P. F. ≥ 0.95 , IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in- Charge as				

	per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium Body (Thickness > 1.20 mm).				
a	18- 22 Watt	2	Each	660.57	1,321.00
20	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, and refilling the trench etc as required but excluding sand cushioning, protective covering.				
a	Upto 35 sq. mm	25	Mtr.	245.41	6,135.00
21	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
a	Upto 35 sq. mm	10.00	Mtr.	34.92	349.00
22	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a	Upto 35 sq. mm (clamped with 1mm thick saddle)	20.00	Mtr.	62.08	1,242.00
23	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
a	3x10 sq. mm. (22 mm)	8	Each	302.64	2,421.00
b	3½ X 25 sq. mm (28mm)	4	Set	359.87	1,439.00
24	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc..direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
a	63 mm dia (OD-63 mm & ID-51 mm nominal)	25	Mtr.	280.33	7,008.00

25	Supplying, Installation, Testing and commissioning of CAT6A Copper Information Outlet (IO) with face plate of color as per site requirement, should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D. All copper Cable and Components should be from same OEM to maintain compatibility and interoperability etc. complete as required.	9	Each	292.94	2,636.00
26	Supplying, drawing, Testing and commissioning of Cat6A UTP 4 pair, 23 AWG solid copper cable in existing conduit/ on surface, U/FTP, LSZH, NonPlenum, Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a 100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable with color coded insulation for easy identification should have FLAME PROPERTIES i.e. Flammability Test - IEC 60332-1, Smoke Density - IEC 61034, LSZH standards compliance: ANSI/TIA-568 C.2, ISO/IEC 11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outer Cable Diameter should be 7.5 + 2 mm. Cable should have been tested and verified by UL/ ETL etc. complete as required.				
a	1 run of cable	90.00	Mtr.	60.14	5,413.00
b	2 run of cable	170.00	Mtr.	96.03	16,325.00
27	Supplying of one number PVC insulated and PVC sheathed / XLPE armoured Multicore copper conductor power cable of 1.1 KV grade of following sizes complete etc. as required.				
a	3 X 6 Sqmm.	30	Mtr.	706.00	21,180.00
28	Supplying of one number PVC insulated and PVC sheathed / XLPE armoured aluminium conductor power cable of 1.1 KV grade complete etc. as required.				
b	3 X 10 sq. mm.	5	Mtr.	260.00	1,300.00
c	3.5 X 25 sqmm	20.00	Mtr.	432.00	8,640.00

29	Fixing and making connections of existing XLPE cable with existing rising main including making holes of required sizes in tap off box and aluminium bus bar of rising main with suitable size nuts, bolts and washers etc. complete as required	2	Job	612.00	1,224.00
30	Supplying, installation, testing and commissioning of 400 mm sweep wall fan with silent operation and 1350 rpm , complete with all respect, including wiring with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable i/c providing suitable clamp for hanging on wall as per site required etc. complete as required.	6	Nos.	4183.00	25,098.00
31	SITC of 10 watt LED bulkhead light IP 66, environmental friendly, ultra modern, energy saving, surface mounted, decorative hexagon bulk head Back-lit LED luminaire comprising of high brightness LEDs complete etc. as required.	2	Each	1418.00	2,836.00
AUTOMATION OF MOTORISED GATE					
32	Supplying, installation, testing and commissioning of Sliding Gate Motor Technical Specifications & Features: Type: Sliding Gate Motor (suitable for telescopic gate application) Capacity: Up to 2000 kg gate weight Power Supply: 230V AC motor for consistent torque and performance Onboard. Control Unit: Integrated electronic control panel with easy programming and automatic learning of opening/closing limits Safety & Accessories Included: a) 1 Remote control. b) 1 Push button station. c) 1 Pair of safety photocell sensors. d) 1 Flashing light with built-in antenna for motion status indication e) Built-in obstacle detection system to ensure safe operation f) Compact and weather-resistant design suitable for outdoor installation.	2	Nos.	153147.00	3,06,294.00

33	Supplying, installation, testing and commissioning of Telescopic Sliding Gate Mechanical Hardware Kit including connection etc. complete as required.	2	Kit	49165.00	98,330.00
34	Supplying, installation, testing and commissioning of Automatic Swing Gate Motor operator kit with following accessories :- This system includes: a) 1 Remote Transmitter for wireless control. b) 1 Push Button for manual operation. c) 1 Pair of Safety Sensors for obstacle detection. d) 1 Flashing Light for operational indication. etc. complete as required.	1	Kit	154744.00	1,54,744.00
35	Supplying, installation, testing and commissioning of Sliding Gate Hardware kit includes the following items:- a) 4 Nos. heavy duty industrial gate bottom wheels. b) 4 Nos. Top Roller Support Wheel. etc. complete as required.	2	Kit	12027.00	24,054.00
36	Supplying, installation, testing and commissioning of UPS of 1 KVA capacity for power backup of minimum 30 min. backup etc. as required.	3	Each	9179.00	27,537.00
			Total		11,85,774.00

CIVIL CONSTRUCTION UNIT**N.I.T. No: 20/e-NIT/EE/CED-I/CCU/2025-26 (Recall)**

Name of work: Modification of existing 5 cabins at 3rd & 6th floors of Vayu wing, Construction of roof top morcha, Providing polycarbonate sheet and concertina coil at existing compound wall and Automation/ Motorized operation existing entry & exit gate no. 2,3 & 6 at IPB, MoEF&CC, Jor Bagh, New Delhi. (SH: Civil & Electrical Works)

SCHEDULE OF QUANTITY

Name of the Contractor					
Sl. 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	51,24,184/-	*	*	*
2	Electrical Works	11,85,774/-	*	*	*
	Total	63,09,958/-			

*- To be filled online in bid document.

- 1) The Column Nos. 4 & 5 are mandatory to be filled by the bidders / tenderers. If these columns are left blank, the tender become invalid.
- 2) The amount in figures in column No.6 shall appear automatically corresponding to the percentage quoted in column No.4 & 5.
- 3) The tenderer is required to quote the percentage only above or below or at par with the estimated cost to cover all the rates of item covered under the respective packages.
- 4) The percentage shall be written in 2 (two) 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