

CENTRAL PUBLIC WORKS DEPARTMENT

कार्य का नाम:— RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED Fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work).

NIT No.: 14/SE/DC-8/DED-81/2026-2027

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प्रमाणित किया जाता है कि इस निविदा में कुल 1 से 64 पृष्ठ हैं। (इस पृष्ठ सहित)

Certified that this N.I.T. contains 1 to 64 pages (including this page)

“NIT approved for Rs. 57,22,287/- (Rupees Fifty-Seven Lacs Twenty-Two Thousand Two Hundred & Eighty-Seven Only)”

**Assistant Engineer (E) P
DED-81, C.P.W. D**

**Executive Engineer (E)
DED-81, C.P.W.D**

**Assistant Engineer (E) P
Delhi Circle-8, C.P.W.D**

**Superintending Engineer
Delhi Circle-8, C.P.W.D**

PART-A

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

The Executive Engineer (E), DED-81, CPWD, Block No. 13, CGO Complex, Lodhi Road, New Delhi (Phone :- 011-24367152, (E-mail:- deleeced3.cpwd@nic.in), on behalf of President of India, invites online **Percentage Rate Bids** in single bid system from approved and eligible enlisted contractors of CPWD in appropriate category of Buildings & Roads (erstwhile/composite/Building/infrastructure) for the following work:-

S. No.	NIT No.	Name of work & Location	Estimated cost put to bid Rs.	Earnest Money	Stipulated Period of Completion of work	Last date of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document.	Date and Time of opening of Bid
1	2	3	4	5	6	7	8
1	14/SE/DC-8/DED-81/2026-2027	RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED Fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work).	Electrical Work Rs. 57,22,287/-	Rs. 1,14,446/-	06 Month	Up to 15:00 hrs on 05-10-2026	on 05-10-2026 at 15:30 hrs.

- The successful bidder (to be called as Main Contractor) shall have to associate specialized agency(s) for execution of the following specialized work(s) as per eligibility criteria defined in SPECIAL CONDITIONS FOR ASSOCIATION OF SPECIALIZED AGENCIES/OEM.
 - Servo Voltage Stabilizer work
 - CMC of VRV/ VRF Bluestar system
- Information and instructions for bidder posted on website shall form part of bid document.
- The Bid document consisting of plans, specifications, the Schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with

and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> or <https://cpwd.gov.in> free of cost.

4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bid or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance surety Bonds, Account Payee Demand Draft or Bankers Cheque or Fixed Deposit Receipt or / and Bank guarantee (for balance amount as prescribed) from any of the commercial bank towards **EMD in favour of Executive Engineer (Elect.), ECD-III, CPWD, CGO Complex, Lodhi Road, New Delhi**, as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD and other documents as specified.

Note: - EMD shall be made/ issued only from the account of the bidder/tenderer submitting the bid/tender. EMD made/issued from the account other than that of the bidder/tenderer submitting the bid, shall not be accepted.

This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.

5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step-to-step process are available on download section of <https://etender.cpwd.gov.in>
6. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations/transactions on the e-tendering portal / website and the bidder should download and install the eMsigner on their system as per instruction available on download section of <https://etender.cpwd.gov.in>.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in Yellow colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
10. 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. Copy of enlistment order 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. However, certified copy of all scanned and uploaded document as specified intender document shall be submitted by the lowest bidder within a week physically in the office tender opening authority.

12. 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 work in CPWD. The department reserves the right to verify the particulars furnished by the applicant independently.
13. All cess/duties/taxes as applicable on the date of receipt of tender shall be borne by the contractor. The contractor shall quote his rate considering all such cess/duties/taxes including GST. Contractor must have GST registration or submit prescribed undertaking for becoming eligible to participate in the tender.
14. The bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent upon any misunderstanding or otherwise shall be allowed.
15. The bidders who propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, which contain any other conditions of any sort including conditional rebate will be summarily rejected.
16. The tenderer should read all the instructions, terms & conditions, contract clauses, nomenclature of items, specifications etc. contained in the tender document very carefully, before quoting the rates.
17. The Bidder should also read the **General Condition of Contract for maintenance works 2023** with (amendments upto previous day of last date of submission of bids) published by the DG(W) CPWD, New Delhi which will be part of the agreement with up to date of amendments i.e. up to previous day of last date of submission of bids.
18. The contractor shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing shall be payable extra whatsoever unless otherwise specified.
19. The contractor has to follow standard operating processor and guidelines for construction & maintenance site for covid-19 outbreak issued vide OM No.2/9/2020-WII/DG/169 dated 05.05.2020 available on CPWD website along with all existing guidelines. It will also form as a part of the agreement.
20. **DEFINITIONS**
 - 20.1 In this document the following words and expressions have the meaning hereby assigned to them.
 - 20.2 EMPLOYER: Means the President of India, acting through the Executive Engineer(E)/DED-81 Division, CPWD, New Delhi.
 - 20.3 Bidder: Means the individual, proprietary firm, firm in partnership, limited company private or public or corporation.

20.4 “Year” means “Financial Year” unless stated otherwise.

21. The Comprehensive Maintenance Work at **NIC’A’ Block, CGO Complex, Lodhi Road, New Delhi** includes maintenance of important office building. The Contractor shall ensure highest standards of services, sanitation, maintenance and facility services with strict confidentiality and security compliance. The contractor must attain and maintain exceptionally high standards of cleanliness and general upkeep, commensurate with the building's stature.
22. The work may be carried out during specific off-peak hours (e.g. weekends, nights) to minimize impact on the building's occupants and operations/ functions.
23. Access to sensitive areas shall be strictly controlled. No worker shall enter any restricted room/area without specific written or verbal authorization of the designated officer of department. The contractor's staff must be escorted in such areas if access is necessary for maintenance.
24. All maintenance personnel must wear a government-approved identity card or temporary pass while on duty in the premises.
25. The intending bidder shall make their assessment on above before quoting the bid. The quoted rates shall be deemed to be inclusive and nothing extra shall be paid on these account.

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

1. Receipt of EMD as per proforma.
2. Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD as per **Performa at NIT Page No. 13 (Validity period of EMD should be 90 days from the date of submission of bid).**

Note: - EMD shall be made/ issued only from the account of the bidder/tenderer submitting the bid/tender. EMD made/issued from the account other than that of the bidder/tenderer submitting the bid, shall not be accepted.

3. Enlistment Order of the Contractor.
4. GST Registration Certificate if already obtained by the bidder.

Or

If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking on a Non Judicial Stamp Paper of Rs.100/-, duly notarized, along with bid documents, "If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard".

5. Copy of Valid Electrical Contractor License or undertaking that **"I/We will either obtain valid electrical license at the time of execution of electrical work or associate contractor having valid electrical license of appropriate class."**
6. The intending bidder shall upload an undertaking that **"I/We shall submit the documents of Associated specialized Agencies/ OEM of the equipment as per the eligibility criteria mentioned in the special conditions of NIT for association of specialized agencies along with performance guarantee, failing which department may reject my/our tender & may forfeit the deposited EMD absolutely & debar me/us from re-tendering for this work"**
7. Certificate of ERP Training of enlisted contractor or his authorized representative as per DG/Enlist. Rules-2023/10 Dated 22.04.2024 for compulsory ERP training through any of the CPWD Regional Training institutes (RTIs) at Delhi, Mumbai, Chennai and Kolkata, National CPWD Academy (NCA) Ghaziabad, Training arranged by Graduates of ERP "Train the Trainers Programme" conducted by NCA, Ghaziabad or through any other special training arranged by ERP unit of CPWD. Certificate should be issued through LMS (Learning Management System) in e-Nirmit.
8. Any other document as specified in the NIT.

NOTE: - However, **Certified copy** of all the scanned and uploaded documents as specified in bid document shall have to be submitted by the successful bidder **within 7** days after last date of submission of bid, physically in the Office of Tender Opening Authority.

CPWD-6 FOR e-TENDERING GOVERNMENT OF INDIA

The Executive Engineer (E), Delhi Electrical Division–81, CPWD, CGO Complex, New Delhi, (E-mail ID –deleecd3.cpwd@nic.in) on behalf of President of India invites online **Percentage Rate Bids** in single bid system from approved and eligible enlisted contractors of CPWD in appropriate category of Buildings & Roads (erstwhile/composite/ Building/ infrastructure) for the work of “**RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work)**”.

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

- 1.1 The estimated cost Electrical Work Rs. 57,22,287/- for 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 (or other standard form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **06 (Six) Months** from the date of start as defined in schedule 'F' or from the first date of handing over 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
5. The architectural and structural 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. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> free of cost.
6. After submission of the bid the contractor can re-submit/revised the 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 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).**
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. Earnest Money in the form of insurance surety bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Bankers cheque or Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the commercial bank (**drawn in favour of Executive Engineer (E), ECD-III, CPWD, 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, 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 for single bid works and 180 days for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

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, who has deposited EMD with any division of CPWD and other documents scanned and uploaded are found in order.

9. The bid submitted shall be opened on 05-10-2026 at 15:00 hrs.

* Blanks to be filled by EE(E), DED-81, CPWD, New Delhi

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 at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form.

In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee.

The contractor Bidder whose bid is accepted will also be required to furnish either copy of applicable licenses /registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC, and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-agencies, if any, engaged by the Bidder for the said work within the period specified in Schedule-F.

12. The description of the work is as follows:

The said work comprises of for **“RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED Fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work)”**.

The work will be carried out in **NIC'A' Block, CGO Complex, Lodhi Road** broadly and the work shall also comprising of various services pertaining to Civil & Electrical work components with other associated works.

The main contractor will associate with specialized firm for executing specialized work as per terms and condition specified there upon.

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed.

The bidders shall be responsible for arranging and maintaining at 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 bidders 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 bidders 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 bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

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 works shall remain open for acceptance for a period of **Thirty (30) days from the last date of receipt of bids.**
- 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 earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - If any tenderer withdraws his tender 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 issued or not.
 - Withdrawal of the tender, by the tenderer shall only be made through e-tender portal. Any other method i.e. through letter / email etc. shall not be considered. The tender inviting authority gets intimation through SMS and email in this regard.
 - If contractor fails to furnish the prescribed performance guarantee within the prescribed period, the earnest money is absolutely forfeited to the President automatically without any notice.
 - In case of forfeiture of earnest money as prescribed in Para (i) to (iv) above, the bidder shall not be allowed to participate in the re-tendering process of the 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 (Fifteen) days from the stipulated date of start of the work**, sign the contract consisting of:-
- 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.
 - Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.
20. The intending bidders are requested to update their profile in CPWD e-tendering portal and to upload their bids well in advance of last date of submission of tender. Any issues related to updating profile/uploading tender can be resolved through the concerned Executive Engineer (E) (Phone no. 011-24367152, e-mail [ID: deleeced3.cpwd@nic.in](mailto:deleeced3.cpwd@nic.in) or ERP helpline no. 18001803286 or e-mail Id 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.

* To be filled by EE(E)/DED-81, Division, CPWD, New Delhi.

21. If the main contractor fails to associate Electrical Contractor for execution of specialized components (Part-A (E&M) Work) within prescribed time or furnishes incomplete details or furnishes details of ineligible agencies even after the tenderer is given due opportunity, the entire scope of such component of works shall be withdrawn from the tender and the same shall be got executed by the Engineer-in-Charge at the risk and cost of the main contractor.

In case the main contractor intends to change the Associated Electrical Contractor during the operation of the contract, he shall obtain prior approval of respective Engineer-in-Charge of the agreement. The new Electrical Contractor shall also have to satisfy the laid down eligibility criteria.

In case Engineer-in-Charge of is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

The Associated Agency of Electrical Components will ensure that their components of the work are executed in time without giving any chances for slippage of milestones of the project. The amount to be withheld under Clause 5 of the contract will be decided by the Executive Engineer (Electrical). In the event of not achieving the necessary milestones as assessed from milestone bar chart, specified percentage of the tendered value of will be withheld for failure of each milestone.

The main contractor or his authorized representative or his Associated Electrical Contractor shall sign the site order book for (E&M) Works and comply with the remarks entered therein by the Engineer in Charge or his authorized representative of the Department (The Assistant Engineer (E) & The Junior Engineer (E)) for the (E&M) Component of work.

The associated agency or main agency, whoever undertakes the work, shall be in possession of valid electrical contractor license before start of work.

**Executive Engineer(E),
DED-81, CPWD**

RECEIPT OF DEPOSITION OF ORIGINAL EMD

Receipt of deposition of original EMD (Receipt No. Date...)		
1.	Name of Work	RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work).
2.	NIT No.	14/SE/DC-8/DED-81/2026-2027
3.	Estimated Cost	Rs. 57,22,287/-
4.	Amount of Earnest Money Deposit	Rs. 1,14,446/- (to be refunded after receiving the Performance Guarantee)
5.	Last date of submission of bid	05-10-2026 upto 15:00 hrs.
(*To be filled by Tender inviting authority/NIT approving authority at the time of issue of NIT and uploaded along with NIT)		
1.	Name of Contractor	
2.	Form of EMD	
3.	Amount of Earnest Money Deposited	
4.	Date of submission of EMD	
5.	Signature of EMD receiving Officer: Name and Designation of EMD receiving Officer: Office Stamp:	

** To be filled by EE inviting tender.

To be filled by EE receiving EMD.

Name and Designation of EMD Receiving officer (EE/AE(P)/AAO) Along with office stamp

Signature(s) of Bidder(s):
Office Stamp:

**GOVERNMENT OF INDIA,
CENTRAL PUBLIC WORKS DEPARTMENT**

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the work of:- **“RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work)”**.

- (i) To be submitted/ uploaded by 15:00 hrs on 05-10-2026 to the EE(E), DED-81, CPWD, New Delhi upload at etender.cpwd.gov.in.
- (ii) To be opened in presence of tenderers who may be present at 15:30 hrs on 05-10-2026 in the office of the EE(E), DED-81, CPWD, New Delhi.

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 **Thirty (30) days from the last date of receipt of bids** and not to make any modification in its terms and conditions.

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

A copy of earnest money in receipt of prescribed amount deposited in the form of insurance surety bonds, Account Payee Demand Draft, fixed deposit receipt, bankers cheque 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 and 12.3 of the tender form.

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

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

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

Dated

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

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

.....*.....Rupees.....*.....
)

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

(a) *

(b) *

(c) *

For & on behalf of the President of India.

Signatures.....*.....

Dated:*.....

Designation.....*.....

(--*-- Blanks to be filled by EE(E), DED-81, CPWD, New Delhi)

**Special condition to comply directive of Hon'ble National Green Tribunal & EIA
Guidance Manual**

1. The contractor shall not store/dump construction material or debris on metalled road.
2. The contractor shall get prior approval from Engineer-in-charge for the area where the construction material or debris can be stored beyond the metalled road. This area shall not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
3. The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and/or other similar material to ensure that no construction material dust fly outside the plot area.
4. The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.
5. The contractor shall provide mask to every worker working on the construction site and involved loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
6. The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction building and carry of construction material and debris relatable to dust emission.
7. That contractor shall ensure the C&D waste is transported to the C & D Waste site only and due record shall be maintained by the contractor.
8. The contractor shall compulsory use of wet jet in grinding and stone cutting.
9. The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2020.
10. The contractor shall carry out on-Road-inspection for black smoke generating machinery. The contractor use cleaner fuel.
11. The contractor shall ensure that all DG sets comply norms notified by MoEF.
12. The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
13. The contractor shall ensure that the construction material is covered by tarpaulin. The contractor take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.

No. 1(10)/T&PR/2016
Government of India
Directorate General
Central Public Works Department
Technical & Public Relations Unit
 Tel No. 23061584 Email: dirtech-pr.cpwd@nic.in

105-A, Nirman Bhawan,
 New Delhi, Dated: **27.01.2016**

OFFICE MEMORANDUM

Sub.: Directives of the Hon'ble Supreme Court and Hon'ble National Green Tribunal on air pollution from construction and demolition activity.

Attention is drawn to the Hon'ble National Green Tribunal earlier orders dated 4.12.2014 and 10.4.2015 in OA No. 21/2014 and OA No. 95/2014 and MoEF guidelines of 2010 regarding dealing with air pollution from construction and demolition sites. The directives in this regard are restated in the Annexure enclosed.

2. Hon'ble Tribunal had directed for mandatory strict adherence and compliance of above referred orders as well as MoEF guidelines 2010 while carrying out the construction activity.

3. Hon'ble Supreme Court, in a recent judgment has favoured imposing a fine of Rs. 50,000/- on a daily basis on construction sites for generating high levels of dust in Delhi and NCR. It has been directed by the apex court that EPCA may go around and check polluting construction sites with the help of the volunteers for strict compliance of its order.

4. Accordingly, all SDGs, ADGs, CEs, CPMs, PMs are enjoined upon to strictly comply with the directives of Hon'ble Supreme Court & Hon'ble NGT and MoEF guidelines 2010 to control air pollution at CPWD construction sites. Any laxity found or reported by the checking authorities in this regard shall be viewed seriously.

This issues with the approval of Director General, CPWD.

Encl. As above.


(S. P. Chaudhary)
Director (Tech & PR)

To **(through CPWD website)**

All SDGs, CPWD
 All ADGs, CPWD
 All CEs/CPMs/PMs, CPWD

Directives of Hon'ble National Green Tribunal in O.A. No.21 of 2014 and O.A. No. 95 of 2014 and MoEF guidelines 2010 on Air Pollution from Construction and Demolition activity.

(A) NGT order dated 04.12.2014:

- No government, authority, contractor, builders or any person would be permitted to store/dump construction material or debris on metalled road.
- Beyond the metalled road the area where such the construction material or debris can be stored shall be physically demarcated by officers of all the concerned Authorities/Corporation ensuring that it would not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured that no accidents occur on account of such permissible storage.
- Every builder, contractor or person shall ensure that the construction material is covered by tarpaulin and all other precaution should be taken to ensure that no dust particles are permitted to pollute air quality as a result of such storage. It shall also be ensured that appropriate protection measures are taken by raising wind breakers of appropriate height on all sides of the plot/area using plastic and /or other similar material to ensure that no construction material dust fly outside the plot area and it will be the builder/contractor responsibility to ensure that their activity does not cause any air pollution during course of construction and/or storage of material or construction activity. This condition shall be strictly adhered to by every builder, contractor, person or authority. In the event of default they shall be liable to be prosecuted under the law in force, as well as for causing environmental pollution and will be liable to pay compensation which would be determined by Tribunal in accordance with law.
- All the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material should be fully covered. The vehicles should be properly cleaned, should be dust free and every necessary precautions is to be taken to ensure that enroute their destination, the dust, sand or any other particles are not permitted to be released in air/contaminate air. Any truck not complying with the above directions would not be permitted to enter NCR, Delhi.

(B) NGT order dated 10.04.2015:

- Every builder or owner shall put tarpaulin on scaffolding around the area of construction and the building. No person including builder, owner can be permitted to store any construction material particularly sand on any part of the street, roads in any colony.

- The construction material of any kind that is stored in the site will be fully covered in all respects so that it does not disperse in the Air in any form.
- All the construction material and debris shall be carried in the trucks or other vehicles which are fully covered and protected so as to ensure that the construction debris or the construction material does not get dispersed into the air or atmosphere, in any form whatsoever.
- The dust emissions from the construction site should be completely controlled and all precautions taken in that behalf.
- The vehicles carrying construction material and construction debris of any kind should be cleaned before it is permitted to ply on the road after unloading of such material.
- Every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris shall be provided with mask to prevent inhalation of dust particles.
- Every owner and or builder shall be under obligation to provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
- It shall be the responsibility of every builder to transport construction material and debris waste to construction site, dumping site or any other place in accordance with rules and in terms of this order.
- All to take appropriate measures and to ensure that the terms and conditions of the earlier order and these orders should strictly comply with by fixing sprinklers, creations of green air barriers.
- Compulsory use of wetjet in grinding and stone cutting.
- Wind breaking walls around construction site.
- All the builders who are building commercial, residential complexes which are covered under the EIA Notification of 2006 shall provide green belt around the building that they construct. All Authorities shall ensure that such green belts are in existence prior to issuance of occupancy certificate.
- All builders shall ensure that C&D waste is transported in terms of this order to the C & D Waste site only and due record in that behalf shall be maintained by the builders, transporters and NCR of Delhi.
- Even if constructions have been started after seeking Environmental Clearance under the EIA notification 2006 and after taking other travel but is being carried out without taking the preventive and protective environmental steps as stated in this order and MoEF guidelines, 2010, the State Government, SPCB and any officer of any department as afore stated shall be entitled to direct stoppage of work.

(C) Environmental Impact Assessment Guidance Manual for Building, Construction, Township and area Development Projects of February, 2010 envisages the following guidelines for mitigation measures in respect of dust control from Building, Construction projects:

"Adopting techniques like, air extraction equipment, and covering scaffolding, hosing down road surfaces and cleaning of vehicles can reduce dust and vapour emissions. Measures include appropriate containment around bulk storage tanks and materials stores to prevent spillages entering watercourses."

The other measures to reduce the air pollution on site are:

- Sprinkling of water and fine spray from nozzles to suppress the dust.
- On-Road- Inspection should be done for black smoke generating machinery.
- Promotion of use of cleaner fuel should be done.
- All DG sets should comply emission norms notified by MoEF
- Vehicles having pollution under control certificate may be allowed to ply.
- Use of covering sheet to prevent dust dispersion at buildings and infrastructure sites, which are being constructed
- Use of covering sheets should be done for trucks to prevent dust dispersion from the trucks, implemented by district offices.
- Paving is a more permanent solution to dust control, suitable for longer duration projects. High cost is the major drawback to paving.
- Reducing the speed of a vehicle to 20 kmph can reduce emissions by a large extent.

Speed bumps are commonly used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, it may be necessary to divert traffic to nearby paved areas.

Material storages / warehouses — Care should be taken to keep all material storages adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust / particulate emissions. Fabrics and plastics for covering piles of soils and debris is an effective means to reduce fugitive dust.

- (D) Copy of NGT orders dated 04.12.2014, 10.04.2015, copy of MoEF guidelines 2010 are available at the DPCC website "<http://dpcc.delhigovt.nic.in>".

PART-B

PROFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of quantity (enclosed) : 55-64

SCHEDULE 'B'

Schedule of material to be issued to contractor : Nil

SCHEDULE 'C'

T&P to be hired to contractor : Nil

SCHEDULE 'D'

Extra schedule for specific requirements/
document for the work, if any : Nil

SCHEDULE 'E'

Reference to General Conditions of contract.		GCC maintenance work-2023 as modified & corrected up to previous day of the last date of submission of tender.
Name of work		RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work).
Estimated cost of work		Estimated Cost Rs. 57,22,287/-
(i)	Earnest money	Rs. 1,14,446/-
(ii)	Performance Guarantee	a) 5% of Tendered Value OR Estimated Cost Put to Tender (ECPT) , whichever is higher. b) Where the tendered amount is less than Eighty Percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, <u>in addition to the requirement under (a) above, shall be increased by an amount</u> equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
(iii)	Security Deposit	2.5 % of tendered value

SCHEDULE 'F': -

GENERAL RULES & DIRECTIONS:		
Officer inviting tender :		Executive Engineer(E)/DED-81/CPWD/New Delhi or successor thereof
Definitions:		
2(v)	Engineer-in-Charge :	Executive Engineer(E)/DED-81/CPWD/New Delhi or successor thereof
2(viii)	Accepting Authority:	Superintending Engineer/DC-8/CPWD/New Delhi or successor thereof
2(x)	Percentage on cost of materials and labour to cover all overheads and profits:	15% (7.5% OH + 7.5% CP) (Provided that no extra overheads and profits shall be payable on the part(s) of work assigned to other agency(s) by the contractor as per terms of contract).
2(xi)	Standard Schedule of Rates	DSR (E&M)- 2025 with up to date correction slips up to last date of receipt of tenders and Market Rates.
2(xii)	Department	Central Public Works Department
9(ii)	Standard CPWD contract Form GCC 2023, CPWD Form 7/ 8 as modified & corrected upto	Standard Form CPWD 7 & General Condition of Contract 2023 for Maintenance Works with amendments upto previous day of the last date of submission of Bid.

Clause 1

Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour license, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance.	:	07 days
Maximum allowable extension with late fee 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above.	:	03 days on written request of contractor stating the reason of delay in procuring performance guarantee to the satisfaction of Engineer-in-Charge.

Clause 2 : Applicable

Authority for fixing compensation under clause – 2	:	Superintending Engineer/DC-8/CPWD/New Delhi or successor thereof
--	---	--

Clause 2A

Whether Clause 2A shall be applicable : **No**

Clause 5

Number of days from the date of issue of letter : **10 Days**
of acceptance for reckoning date of start.

MILE STONE (S) AS PER TABLE GIVEN BELOW
Table of Milestone (s)

S.No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	% Amount of tendered cost to be with-held in case of non-achievement of milestone
Not Applicable			

Time allowed for execution of work	:	06 Months
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Authority to decide:

1. Convey the decision of shifting milestone and extension of time	:	Engineer-in-charge of major component or his successor thereof.
2. Decide of Extension of Time	:	Superintending Engineer/DC-8/CPWD/New Delhi or his successor thereof.
3. Decide Rescheduling of milestone	:	Superintending Engineer/DC-8/CPWD/New Delhi or his successor thereof.
4. Decide Shifting of date of start in case of delay in handing over of site	:	Superintending Engineer/DC-8/CPWD/New Delhi or his successor thereof.

Performa of Schedules**Clause 5 Schedule of handing over of site**

Part	Portion of site	Description	Time period for handing over of site from date of commencing of issue of letter of intent.
Part A	Portion without any hindrance	Site is available	7 days
Part B	Portions with encumbrances	NIL	-
Part C	Portions dependent on work of other agencies	NIL	-

Clause 5

Applicable Clause 5/ Clause 5A : **Clause 5**

Clause 6:-

(a) Mode of Measurement: CMB/EMB	:	Electronic Measurement Book (EMB) through ERP Module
(b) Measurement to be recorded either by contractor or jointly by department and contractor.	:	Contractor

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.	:	14 Lakhs or as mutually agreed by the parties
Clause 7 A:-Whether Clause 7A shall be applicable.	:	Yes Applicable

Clause 8

Competent authorities to inspect and issue completion certificate.	Executive Engineer (E), DED-81 or successor thereof
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Clause 10A

List of testing equipment to be provided by the contractor at site lab. : **As per requirement at site & as per direction of Engineer-in-Charge.**

Clause 10B(i)

Whether Clause 10 B (i) shall be applicable	Not Applicable
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Clause 10C : **Not Applicable**

Component of labour expressed as percent of value of work : **Not Applicable**

Clause 10CC : **Not Applicable**

Component of materials

Expressed as percent of the total of work (Xm) : **Not Applicable**

Labour Component

Expressed as percent of total value of work : **Not Applicable**

Clause 11	
Specifications to be followed for execution of work	
ELECTRICAL WORKS:	a) CPWD General Specifications for Electrical work Part-I Internal -2023, amended up to date.
	b) CPWD General Specifications for Electrical work Part-II External -2023, amended up to date.
	c) CPWD General Specifications for Electrical work Part-III-Lift & Escalators- 2003, Part-IV Sub Station– 2013, Part V Wet Riser & Sprinkler Systems– 2020, Part VI Fire Detection and Alarm System– 2018, Part VII D.G. Sets - 2013, Part VIII Gas Based Fire Extinguishing System 2013, General Specifications for Heating, Ventilation & Air-Conditioning (HVAC)– 2024 amended up to date.

Clause 12: Applicable

Type of Work	Maintenance Work
The completion cost shall, in no case, exceed 1.5 times the contract amount. The Contractor will devise a system to keep a watch on quantum of work taken up vis-a-vis balance items required to complete defined scope of work and will give the alerts to Engineer-in-Charge before taking up extra item(s), deviation(s) so that completion cost does not exceed above limit. Work executed beyond limit will neither be recorded nor be paid. All deviation quantity shall be paid at the agreement rates.	

Clause 16

Competent Authority for deciding reduced rates.

1. Up to 5% of the Contract Value	:	SE/Delhi Circle-8/CPWD New Delhi or successor thereof
2. Beyond 5% of Contract Value	:	SE/Delhi Circle-8/CPWD New Delhi or successor thereof with prior approval ADG(D)/CPWD/New Delhi or successor thereof.

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site:	As per actually required at site and shall be arranged by the contractor.
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Clause 19

Clause 19C	(Authority to decide penalty for each default)	Engineer-in-charge
Clause 19D	(Authority to decide penalty for each default)	Engineer-in-charge
Clause 19G	(Authority to decide penalty for each default)	Engineer-in-charge
Clause 19K	(Authority to decide penalty for each default)	Engineer-in-charge

Clause 25

(a)	Conciliator: -	ADG (Delhi), CPWD, New Delhi OR successor thereof.
(b)	Arbitrator Appointing Authority	Superintending Engineer, DC-8, CPWD, New Delhi or successor thereof
(c)	Place of Arbitration	New Delhi
Note: It is a term of contract that each party invoking arbitration must exhaust the aforesaid mechanism of conciliation for settlement of claims/disputes prior to invoking arbitration.		

Clause 32 :-**“Requirement of Technical Representative (s) and Recovery Rates”**

S. No.	Minimum Qualification of Technical Representative	Discipline	Desig. (Pr. Tech. / Tech. Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32	
						Figures (inRs.)	Words
1.	Graduate Engineer OR Diploma Engineer	Electrical/ Mechanical	Project Manager cum Planning / quality /site / billing Engineer	2 OR 5 respectively	1	Rs. 15000/- Per Month Per Person	Rs. Fifteen Thousand Only
Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Diploma holder with Minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.							

Clause-38

(i)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 printed by CPWD with up to date correction slips	
(ii)	Variations permissible on theoretical quantities:	
a)	Cement for works with estimated cost put to tender not more than Rs. 25 Lakh	Not Applicable
	For works with estimated cost put to tender more than Rs. 25 Lakh	Not Applicable
b)	Bitumen for all works.	Not Applicable
c)	Steel Reinforcement and structural steel sections for each diameter, section and category.	Not Applicable
d)	All other materials.	Nil

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor.	
		Excess beyond permissible variation	Less use beyond the permissible variation
-----NIL-----			

Assistant Engineer (E)-P
DED-81 CPWD,
CGO Complex, New Delhi

Executive Engineer(E)
DED-81 CPWD,
CGO Complex, New Delhi

Annexure-C 1**Form of Application by the Contractor for seeking Extension of Time**

1. Name of Contractor:
2. Name of work as given in the agreement:
3. Agreement No.:
4. Estimated amount put tender:
5. Date of commencement of works as per agreement:
6. Period allowed for completion of work as per agreement:
7. Date of completion stipulated in agreement:
8. Period for which extension of time if has been given by authority in Schedule-F Previously :

	EE's Letter No. and date	Extension granted	
		Months	Days
(a) 1st Extension			
(b) 2nd Extension			
(c) 3rd Extension			
(d) Total extension previously given			

9. Reasons for which extension have been previously given (Copies of the previous applications should be attached):
10. Period for which extension if applied:
11. Hindrances on account of which extension is applied for which dates on which hindrances occurred and the period for which these are likely to last (for causes under clause 5.2/ and 5.3):

Submitted to the authority indicated in Schedule "F" with copy to the Engineer –in –Charge

On Non-Judicial Stamp Paper of Minimum Rs. 100/-
(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
Form of Bank Guarantee for Earnest Money Deposit/ Performance Guarantee/ Security
Deposit/Mobilization Advance

Whereas, the Executive Engineer (E), DED-81, CGO Complex, New Delhi-110003. on behalf of the President of India (hereinafter called "The Government") has invited bids under(NIT Number).....dated.....for.....(Name of work : **"RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work).**

" The Govt. has further agreed to accept irrevocable Bank Guarantee for Rs. (Rs..... only) valid upto.....(date)*.....as Earnest Money Deposit from.....(name and address of the 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 (E), DED-81, CPWD, CGO Complex, New Delhi** 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: **"RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH: - SITC/Replacement of EI Fixtures i.e. LED fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work).**

1. " The Government has further agreed to accept an irrevocable bank Guarantee for Rs.....(Rupees.....only) valid upto.....(date).....as Performance Guarantee/Security Deposit/Mobilization Advance from the said contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
2. We,(indicate the name of the bank)(herein after referred to as "the Bank"), hereby undertake to pay to the Govt. an amount not exceeding Rs..... (Rs only) on demand by the Govt. within 10 days of the demand.
3. We,(indicate the name of the bank)... do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Govt. stating that the amount claimed is reqd. to meet the recoveries due or likely to be due from the Said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....(Rupees... only)
4. We,(indicate the name of the bank)....., further undertake to pay the Govt. any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
5. We,(indicate the name of the bank)....,further agree that the Govt. shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Govt. against the said contractor and forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Govt. or any indulgence by the Govt. to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We,(indicate the name of the bank), further agree that the Govt. as its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Govt. may have in relation to the contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. We,(indicate the name of the bank)....,undertake not to revoke this guarantee except with the consent of the Govt. in writing.
9. This Bank Guarantee shall be valid upto.....unless extended on demand by the Govt. notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.....(Rupees... Only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

DATE

WITNESS

Signature....

Name and Address

Authorized signatory

Name

Designation Staff Code No. Bank Seal

Signature....

Name and Address

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

** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be.

(CPWD, OM No.DG/SOP/14 dated 20.10.2020)

(Proforma for encashment of BG to be issued 14 days before its expiry)

भारत सरकार
केन्द्रीय लोक निर्माण विभाग
दि.वै.मं-81, सीजीओ कॉम्प्लेक्स,
नई दिल्ली

To,
The Manager

...(Name & Address of Bank)... ..

.....

.....

Subject : Request for encashment of Bank Guarantee number.....dated..... for
Rs.....valid up to.....

towards earnest money deposit/performance guarantee/security deposit/mobilization advance (As

applicable)Name of Contractor:

Dear Sir,

The above mentioned Bank Guarantee numberdated..... is valid up to... ..In
terms of paragraph 2 of the said Bank Guarantee, the Govt. of India hereby demands a sum of
Rs.....(Rupees..... only) payable under this Bank Guarantee since this amount is required to meet
the
recoveries due from.....(name of the contractor)..... The amount shall be paid latest by
(give date).....by transfer to account number.....

The aforesaid Bank Guarantee is being sent to you through.....(name and designation).....
Along with this letter.

Enclosure : Bank Guarantee

Yours faithfully,
Executive Engineer (E)
DED-81, CPWD
CGO Complex, New

DelhiCopy to:.....(Name & address of the
contractor).....

FORM-I**CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF SPECIALIZED WORK(S)**

Name of work: **RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH:- SITC/Replacement of EI Fixtures i.e. LED fittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work).**

1. I / We hereby give my consent to associate with M/s,
for executing the of work of.....(Mention specialized work(s)).
2. I / We will execute the work as per specifications and conditions of the agreement and
as per directions of the Engineer-in-Charge for the corresponding specialized work(s)
till the completion of the work.
3. I / We will be responsible for necessary action to handover the installations and for
rectification of defects and repair during he maintenance/warranty period.
4. Also, I/We will employ full time technically qualified Engineer/supervisor for the
specialized work(s) component of the work as required for the work and list of same
shall be made available to Engineer-in-Charge. I / We will attend inspection of
officers of the department as and when required.

Date:

Signature with date of Main Agency/Contractor

Address:

Signature with date of Associate
Specialized Agency

Address:

1. Witness with address (From
Main Contractor side)
2. Witness with address (From
Associated Agency side)

FORM-II**PROPOSAL FOR ELIGIBLE ASSOCIATING AGENCIES FOR SPECIALIZED WORK(S)**

I/we hereby propose the following agencies to be associated as per mentioned against each for executing corresponding specialized work(s).

Their consent letters are also attached as per FORM-I

Sl. No.	Name of Associated Specialized Agency	Category and class of CPWD registration/Enlistment (if any)	Registration / Enlistment copy/ completion Certificates attached	Validity of registration/Enlistment	Value of Gross Work Done of Specialized work	Experience Certificate attached (Yes/No)	Consent letter attached (Yes/No)
Sub Work – I							
1							
2							
3							
Sub Work – II							
1							
2							
3							

FORM-III

MEMORANDUM OF UNDERSTANDING [MoU] BETWEEN MAIN CONTRACTOR
AND ASSOCIATED SPECIALIZED AGENCY

- 1] M/S[Name of the firm/agency with full
address] Enlistment Status
Valid Upto:
[Hence forth called the Main Contractor]
and
- 2] M/S[Name of the firm/agency with full
address] Enlistment Status
Valid Upto:
[Hence forth, called Associated Specialized Agency]

For the execution of Specialized Work(s)..... as per
schedule, specifications, terms and conditions of the agreement.

We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act [amended upto date] and the department [CPWD] can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MoU permits. In case of any dispute, either of us will go for mediation by the EE (C) / EE (E), CPWD, New Delhi. Any of us may appeal against the mediation to the SE, DC-8, CPWD, New Delhi. His decision shall be final and binding on both of us.

We have agreed as under:-

- 1) The Associated Specialized Agency will execute all specialized work(s) in the whole some manner as per terms and conditions of the agreement and as per the direction of the Engineer-in-charge.
- 2) That the Associated Specialized Agency has gone through the contract and has understood the scope of work required for the purpose of executing the specialized work(s).
- 3) All the machinery and equipment, tools and plants, special T&P required for execution of the specialized work(s), as per agreement, shall be the responsibility of the Associated Specialized Agency.
- 4) The site staff required for the specialized work(s) shall be arranged by the Associated Specialized Agency as per terms and conditions of the agreement.
- 5) Site order book maintained for the said work shall be signed by the authorized representative of Main Contractor as well as associated specialized Agency.
- 6) All the correspondence regarding execution of the specialized work(s) shall be done by the Department with the Main Contractor. In case of non-compliance of the provisions of agreement, the Main Contractor, shall be responsible for any failure of Associated agency. The action under clauses 2 and 3 shall be initiated and taken against the Main Contractor.

Signature of Main Contractor
Specialized Agency Date:

Signature of Associated
Date:

Place:

Place:

WILLINGNESS CERTIFICATE

I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer-in-charge. Also, I will deploy full time technically qualified supervisor for the works. I will attend inspection of officers of the department as and when required.

“I/We undertake and confirm that eligible similar work(s) has /have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in CPWD contracts in future forever.”

“I have also read the complete tender conditions and I am aware that PART-A of this tender document is applicable to me also”

Date :

Signature of Associated Specialized Agency

SPECIAL CONDITIONS FOR ASSOCIATION OF SPECIALIZED AGENCIES

- It should be noted that only the associated agencies engaged by the contractor for specialized services shall disburse the payment of salaries, EPFO, ESIC and other relevant documents of the workers deployed by it and only the documents submitted by the associated agencies for payment of salary and ESIC & EPFO shall be accepted. The main contractor shall in no way be concerned with the payment and other remuneration of the workers of the specialized / Associated agencies.

1. The main contractor shall have to associate other agency(s) (Joint ventures are not accepted) for execution of each of the specialized work (s), who fulfills the eligibility criteria as defined below.

For components of E&M works, the eligibility criteria for associate agency will be as detailed below:				
Sl. No.	Sub Head Wise	Component of E&M works	Estimated Cost Rs.	Eligibility
1.	SH-III	SERVO VOLTAGE STABILIZER WORK	Rs. 3,66,462/-	Firm shall have executed the work of Comprehensive Maintenance (CMC) of Servo Voltage stabilizer system of OEM (C-MOS)/ Service Provider . Firm shall submit necessary documents of the same (i.e. MOU).
2.	SH-VII	CMC of VRV / VRF Bluestar system	Rs. 1,25,568/-	Firm shall have executed the work of Comprehensive Maintenance (CMC) of VRV/VRF system of OEM i.e. Blue Star Make/ Service Provider . Firm shall submit necessary documents of the same (i.e. MOU).

Note:-

1. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last date of submission of tenders.
2. Should have satisfactorily completed the works as mentioned below during the last Seven years ending last day of the month previous to the one in which tenders are invited.
3. However, the composite category contractor may also be eligible to carry out himself /herself any or all of the above specialized works mentioned **at Sl. No. 1 to 2** only without associating any specialized agency provided:-
4. The main agency fulfils the prescribed eligibility criteria respectively for the above specialized work(s).
5. The intending bidder shall upload an undertaking that **"I/We shall submit the documents of Associated specialized Agencies/ OEM of the equipment as per the eligibility criteria mentioned in the special conditions of NIT for association of specialized agencies along with performance guarantee, failing which department may reject my/our tender & may forfeit the deposited EMD absolutely & debar me/us from re-tendering for this work"**.
6. The main contractor shall have to submit documents of proposed associated specialized agencies for Sl. No. 1 to 4 (i) Self attested copies of Certificates of Work Experience/Completion certified by an officer not below the rank of Executive Engineer/Project Manager or equivalent, clearly indicating. a) Name of work, b) Scope of Work, c) Agreement No., d) Estimated Cost, e) Tendered Cost, f) Final Value of Work Done, g) Date of Start, h) Stipulated date of Completion, i) Actual date of completion, j) Nature of the Work etc. (In case some of above said details are not mentioned in the Completion certificate, the firm shall attach sample proof in support of above details), (ii) Self attested copy of valid Electrical contractor license (if applicable), (iii) GST registration for approval of the department as per eligibility requirement mentioned in above along with the performance guarantee after the acceptance of tender.

7. Self-attested copy of valid Electrical contractor license (if applicable),
8. GST registration for approval of the department as per eligibility requirement mentioned in above along with the performance guarantee after the acceptance of tender.
9. Original consent letter of such selected associated specialized agencies for association shall also be enclosed in the prescribed format as per FORM-I along with documents mentioned **at Sl.No.-1 & 2.**
10. The main contractor has to submit all the requisite documents with regard to specialized agencies to be associated as per NIT. If the main contractor fails to submit **all these documents** of the proposed associated specialized agencies as mentioned **at Sl. No. 1 & 2** above, along with the performance guarantee after the acceptance of tender, department may reject tender of the contractor & may forfeit the deposited EMD absolutely & debar the contractor from re-tendering for this work.
11. After approval of associated specialized agencies by Engineer-in-charge, the main contractor will submit MOU(s) signed with the associated specialized agency as per FORM-III in the shape of affidavit on stamp paper duly attested by notary in original **within 7 (Seven) Days** after issue of approval letter (for associate specialized agency). The MOU(s) shall be signed by both the parties i.e. main contractor as 1st party and associated specialized Agency as 2nd party, independently for all specialized work(s).
12. All technical discussions during currency of the contract, shall be attended by the associated specialized agencies and the main contractor. Commercial/Technical submissions for the specialized work(s) shall be signed and submitted by the associate specialized agencies along with the main contractor.
13. The associated specialized agencies and the main contractor shall attend the site during inspection of the work by the Engineer-in-Charge or higher authority.
14. The main contractor shall be entirely responsible and answerable for all the works done by his associated specialized agency regarding their quality, adherence to the laid down specification, terms and conditions, warranty & guarantee etc. as per the agreement and he shall be liable to bear any compensation that may be levied by the department under any of the clauses of the agreement.
15. In the event of the concerned Associated specialized Agency not performing satisfactorily or failure to complete the specialized works(s), the main contractor on written directions of the Engineer-in-charge, shall remove the Associated specialized Agency deployed on the work and shall submit name of new associated Specialized Agency as per eligibility criteria mentioned in the NIT to execute the left over specialized work(s) without any loss of time after completion of all formalities mentioned in the NIT.
16. Also if main contractor wants to change the associated specialized agency during the currency of the contract he shall submit name of new associated Specialized Agency per eligibility criteria mentioned in the NIT to execute the leftover specialized work(s) after completion of all formalities mentioned in the NIT.
17. The main contractor shall be responsible and liable for proper and complete execution of the all works including specialized work(s) and ensure coordination and completion of all associated specialized agencies.
18. Running payment for the work shall be made to the main contractor. In case main contractor fails to make the payment to the associated specialized agency(s) by him within 15 days of receipt of each running account payment then on the written complaint of any associated specialized agency(s) for such work, Engineer-in-Charge shall serve the show cause to main contractor and after considering the reply of the same he may make the payment directly to the concerned associated specialized agency(s) for the work as per the terms & conditions of the agreement/M.O.U. drawn between main contractor and associated specialized agency fixed by him, if reply of main contractor either not received or found unsatisfactory. Such payment made to the associated specialized agency(s) shall be recovered by Engineer-in-Charge from the next RA/final bill due to main contractor as the case may be.

GENERAL TERMS AND CONDITIONS

General

1.1 The copy of CPWD General Specifications are readily available in CPWD website www.cpwd.gov.in under the link publication.

1.2 **Location:**

Work shall be carried out at **NIC 'A' Block, CGO Complex, Lodhi Road**. 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.

1.3 The work shall be executed as per CPWD General Specifications for Electrical works part-I (Internal) 2023, Part-II (External) 2023, as amended up to date, relevant I.E. Rules, industry standards, BIS/IES and as per directions of Engineer-in-charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these Specific conditions, as the same are to be read along with schedule of works for the work.

1.4 The tenderer should in his own interest visit the site and get familiarize with the site conditions before tendering.

1.5 No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

2.0 Commercial Conditions

2.1 **Type of contract**

The work to be awarded by this tender shall be treated as indivisible works contract.

3.0 Terms of payment

a. On account payments for part work (after stipulated and statutory deductions) as assessed by the Engineer-in-charge for the applicable items in the Contract shall be payable at part rates not exceeding the percentage indicated against the stages of work.

S.N	Stage of work	Percentage of Rate on Tendered Amount
a	Supply of material at site in good condition along with manufacture's test reports. (except exclusive supply item)	70%
b	On completion of installation in all respect.	20%
c.	Testing, Commissioning & handing over to the department.	10%

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

3.2 Security Deposit

Security Deposit shall be deducted from each running bill and the final bill to the extent of 2.5% of the gross amount payable subject to a maximum amount of 2.5% of the tendered value. The security deposit shall be released on the expiry of guarantee period of 12 Months stipulated in the contract. Bank guarantee will not be accepted as security deposit.

3.3 **Performance Guarantee**

The successful tenderer shall submit an irrevocable performance guarantee of 5% of the tendered amount in addition to the other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement within 15 days of issued of letter of acceptance of tender. This guarantee shall be in the form of Demand draft / pay order or irrevocable bank guarantee bond of any scheduled bank or the State Bank of India in the specified format or in the form of Government security, fixed deposit receipt pledged in favour of Executive Engineer or as specified in the letter of acceptance of tender. The performance guarantee shall be initially valid up stipulated date of completion plus 60 days beyond. This bank guarantee shall be kept valid till the recording of completion certificate for the work by the competent authority.

3.4 Income Tax, labour cess & other statutory deductions etc shall be made at source as per the prevalent laws. The deductions of Security Deposit, Income-Tax, Works Contract Tax etc shall be done after calculation of the above due payments as per clauses 3.1 to 3.3 and net payment shall be reduced accordingly.

4.0 **Rates**

4.1 The rates quoted by the tenderer, shall be firm and inclusive of all taxes including GST and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc at site including temporary construction of storage, risks, overhead charges, general liabilities/obligations and clearance from Local Body. However, the fee for the Local Body inspections shall be borne by the department.

4.2 The department will not issue Octroi exemption certificate.

5.0 **Completeness of Tender**

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of wall fan and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

6.0 **Storage and Custody of Materials**

For storage of sundry materials and erection equipments or else the agency has to make his own arrangements. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

7.0 **Care of the Building**

Care shall be taken by the contractor while handling and installing the various equipments and components of the work to avoid damage to the building. 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 cost all unwanted and waste materials arising out of the installation from the site of work.

8.0 **Completion Period**

The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc arrangement of materials & equipment's, delivery at site including transportation, installation, testing, commissioning and handing over the entire system to the satisfaction of the Engineer-in-charge.

9.0 **Guarantee**

9.1 All equipment's shall be guaranteed for a period of 12 months (if not mentioned otherwise) from the date of taking over the installation by the department, against unsatisfactory performance and /or break down due to defective design, workmanship or material. The equipment's or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.

9.2 The tender shall guarantee among other things, the following: -

a) Quality, strength and performance of the materials used as per manufacturers standards.

b) Safe mechanical and electrical stress on all parts under all specified conditions of operation.

10.0 Power Supply

(A) Maintenance/Revenue work (i/c Repair/ Renovation/ Up-gradation/ Retrofitting work):

- (i) Unless otherwise specified, 3 phase, 415 volts, 50 Hz AC power Supply (5 KW load) shall be provided by the department to the contractor at one point for execution of work at site. Termination switchgear and extension cable, however, shall be arranged/provided by the contractor. Further extension, if required, shall be carried out by the contractor himself.
- (ii) (a) For this purpose, the power supply shall be given at the main incomer unit of the electrical panel to be provided by the contractor. The termination of this feeder in the main incomer unit shall be the responsibility of the contractor and nothing extra shall be paid on this account.
- (b) Unless otherwise specified in the contract, further power distribution to the various equipment shall be done by the contractor.
- (c) Where the power supply has to be arranged by the Department at more than one point as per the terms of the contract, the termination of all such power feeders in the incomer of respective control panels to be provided by the contractor shall be the responsibility of the contractor and nothing extra shall be paid on this account.
- (d) The contractor shall use the power supply only for the bonafide use of the work. No work shall be done at site with the supplied power which is not required for execution of work or which pertains to work to be carried out for some other agreement/site or labour camp/office setup etc. The power supply shall be disconnected in case of such default and the contractor shall then have to arrange the required power supply at his cost. Further, if such incidence of use of electricity for other work or other agreement or labour/office setup or In case, any complaint regarding theft/misuse of electricity is found electricity charges @0.5% of Tendered amount or Rs10,000/- per occasion whichever is higher shall be recovered from contractors bill. A written complaint of client department along with its vetting/clarification by officer of CPWD of minimum rank of AE shall constitute a definite and sufficient proof for the alleged theft/misuse and recovery shall be made accordingly which should be nonnegotiable & nonrefundable and no claim in this regard, whatsoever, shall be entertained.
- (e) For use of electricity provided by department as mentioned above, following rates shall be recovered from contractors bills:-
 - (i) For Renovation/Maintenance/Upgradation/Retrofitting work: - 0.15% of Gross work done
 - (ii) For Manpower or Outsourcing work having labour component more than 90%, No electricity charges shall be recovered.
 - (iii) For Works involving steel fabrication / steel work component more than 50% of ECPT: - 01% of Gross work done

(B) Construction/Original work: -

For Construction & maintenance works pertaining to clients, Contractor shall submit undertaking for use of electricity either through his own source (local authority or DG set supply) or through Metered connection provided by client department (In case agreed by client department). The same undertaking shall be submitted along with PG otherwise it shall be presumed that contractor intends to use Client's electricity without meter and in such case **0.10 %** of Gross work done shall be recovered from contractor's bill.

Further, if any incidence of use of electricity for other work or other agreement or labour/office setup or in case, any complaint regarding theft/misuse of electricity is found electricity charges @0.5% of Tendered amount or Rs25,000/- per occasion whichever is higher shall be recovered from contractors bill. A written complaint of client department along with its vetting/clarification by officer of CPWD of minimum rank of AE shall constitute a definite and sufficient proof for the alleged theft/misuse and recovery shall be made accordingly which should be non-negotiable & non-refundable and no claim in this regard, whatsoever, shall be entertained. In any case, electricity connection at one point shall be provided by client/department, if available and agreed by client department. However, contractor shall be responsible for arranging power

supply and there shall be no obligation from department to make available power supply for execution of work and while quoting, contractor has to keep in mind that power and water has to be arranged by contractor himself at his own cost and included in the quoted rates. No hindrance on account of non-availability of power supply from client department or CPWD shall be considered and contractor shall be responsible for any delay in work on account of above.

11.0 **Water Supply**

Arrangement of Water supply for testing & for successful installation & completion of the system shall be in the scope of successful firm without any extra cost.

12.0 **Acceptable Makes of Various Equipment's**

The List of acceptable makes of various equipment's/components/accessories have been indicated in "NIT". The tenderer shall work out the cost of the offer on basis of acceptable makes along with other terms & conditions of contract. Alternate makes are not acceptable. The items which are covered or not covered in the approved list of make in the contract, contractor shall submit makes for approval by Engineer-in-charge. Only makes approved in writing by Engineer-in-Charge shall be used at site. Any material brought at site without prior approval of Engineer-in-charge may be rejected, even if the make is available in NIT and contractor shall be responsible for any such rejection of material.

- i. Contractor shall get approval of Makes & Models of material before their use at site. The technical specifications / catalogue shall also be submitted along with submission for approval. In case unapproved material is found to be used /installed at site or kept at site store for installation, department shall not only confiscate such material but also be at liberty to recover cost for removal of material from site from contractors bill.
- ii. **For each item to be used at site, contractor shall submit model number for each item for approval by Engineer-in-charge.** Only approved make & model/material shall be used at site. Any material found at site which has not been approved can be rejected and shall not be paid. Contractor will be solely responsible for non-payment due to use of non-approved material. The submission for material approval shall be minimum two weeks before its use at site.

13.0 The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipment's regarding installation, adjustments operation and maintenance including preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue etc. all in triplicate.

14.0 **Extent of work**

14.1 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning, as may be required by the department. The term complete installation shall not only mean major items of the plant and equipment's covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract as this is a turnkey job. The quoted rates shall be deemed to be inclusive of all kind of leads, lifts, clearing of site/jungle and nothing extra shall be paid, whatsoever on such account

14.2 In addition to supply, installation, testing and commissioning of complete installation, following works shall be deemed to be included within the scope of work to be executed by the tenderer as this is a turnkey job.

- a) Minor building works necessary for installation of equipment's, foundation, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required.
- b) All supports for rising mains, cables and MS channels for erection of panels & etc. as are necessary.
- c) Getting Local Body inspection done & obtaining approval for energizing the installation if required. However, necessary fees for inspection shall be borne by the Department.
- d) Arrangement of electric supply (Single / Three phase) and water supply for execution and successful commissioning of the system.

- e) Small wiring, inter-connection etc. inclusive of all materials and accessories, necessary to comply with the regulations as well as proper and trouble-free operation of the equipment.
- f) Closing of the cable entry points in sub-station against seepage of water, rodents etc.
- g) Tools and tackles required for handling and installation.
- h) Necessary testing equipment's for commissioning.
- i) Watch and Ward of materials and/or installation and equipment's till their handling over to the department.
- j) All minor building works, such as equipment's foundation if required cutting and making good holes, grouting of channels belts as required. Cutting and making good damages etc.
- k) Provision of supports/clamps for equipment's, cables etc. wherever required.

15.0 **Works to be done by the Department**

Unless otherwise mentioned in the tender specifications the following works shall be carried out by the department.

- i) To make the site available for the work. The contractor should select such equipment for installation as can be properly installed in the spaces shown in specification drawings. While no guarantee can be given minor modification required by the contractor if mentioned in the tender or intimated immediately after the receipt of tender shall be carried out if structurally possible.

16.0 **Exclusion and work to be done by other agencies:**

The following shall be excluded from the scope of the work:

- a) Major dismantling of any existing building work.

17.0 **Inspection and Testing**

- 17.1 All the tests certificates of the equipment's are required to submit along with delivery of material.
- 17.2 Copies of all documents of routine and type test certificates of the equipment, /cable carried out at the manufacturers premises shall be furnished to the Engineer-in-charge and consignee.
- 17.3 After completion of the work in all respects the contractor shall offer the installation for testing and operation.

18.0 **Validity**

Tenders shall be valid for acceptance for a period of 30 days from the date of opening.

19.0 **Compliance with Regulations and Indian Standards**

- 19.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:

- i) Factories Act
- ii) Indian Electricity Rules
- iii) BIS & other standards as applicable
- iv) Workmen's compensation Act
- v) Statutory norms prescribed by local bodies, Power supply co. etc.

- 19.2 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

- 19.3 Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs. 500/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

20.0 Indemnity

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipment's and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including their party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

21.0 Erection Tools

No tools and tackles either for unloading or for shifting the equipment's for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.

22.0 Cooperation with other agencies

The successful tenderer shall co-ordinate with other contractors and agencies engaged in the construction of buildings, if any, and exchange freely all technical information so as to make the execution of this work/contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the tenderer himself.

23.0 The work will be carried out with least disturbance during shifting & shut down taken in consultation with the client department.

24.0 Verification of correctness of equipment at Destination

The contractor shall have to produce all the relevant records to certify that the genuine equipments from the manufacturers has been supplied and erected.

25.0 Painting

This shall include cost of painting of the entire installation.

26.0 Maintenance

26.1 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of 1 year from the handing over of the installation.

27.0 Interpreting specifications

In the case of discrepancy between the schedule of Items, the specification and/ or the drawings, the following order of preference shall be observed: -

- (a) Schedule of Work.
- (b) Specific Conditions.
- (c) General Terms and Condition.
- (d) Drawings.
- (e) CPWD Specifications.
- (f) NBC – 2016
- (g) Indian Standard Specifications of B.I.S.

However, the order of preference provided is in general and in case of contradiction or otherwise, higher of specifications available in above documents/acts/codes shall be followed. Contractor is advised to quote the rates accordingly keeping in mind that highest of specification available shall

be adopted.

- ~~28.0 General Terms & Condition, Special conditions & additional condition mentioned in part B of NIT (i.e. Civil Component of work) shall also be applicable for part C of NIT as well (Not applicable for Electrical exclusive contracts).~~
- 29.0 Excavation shall include hard rock excavation as well and nothing extra shall be paid on this account.
- 30.0 In case cable is laid at depth less than as mentioned in NIT/CPWD specifications recovery at Rs. 15 per 10 cm depth /meter of cable length shall be recovered from bill. This shall also be applicable for GI pipe work, DWC pipe work, Earthling work as well.
- 31.0 Challan & Test Certificate for all items amounting more than Rs. 50,000/- shall be submitted along with running bill in case both Challan & Test certificated are not submitted R.A. bill shall not be considered & contractor shall be responsible for any delay in payment.
- 32.0 Contractor shall submit cable route plan for approval before start of cable work. In case drawings for area /layout are not available with department these drawings shall be prepared by contractor at his on cost. For the purpose of assessment of work contractor is advised to visit the site to get familiar with site conditions before quoting his rates
- 33.0 All cabling & street light work shall be carried out as per CPWD specifications (External) 1995. Contractor shall obtain written clearance from JE/AE in charge of work before refilling the excavated trenches, otherwise it shall be presumed that contractor has not excavated required depth and item/component of item for excavation and refilling for trenches shall not be paid and contractor shall be responsible for such nonpayment.
- 34.0 Contractor shall be fully responsible for shifting of services encountered at site like electrical lines/power cables/ telephone, TV, data cables/electric poles/light poles/feeder pillar (whether energized or not)/dismantling and handing over such material to department. For shifting of such services including dismantling of such material required for smooth working at site, nothing extra shall be paid. Contractor is advised to visit site before quoting his rates.
- 35.0 Measurements shall be recorded for all measurements and levels of work done in the shape of electronic measurement book through CPWD ERP module as per CPWD OFFICE MEMORANDEM NO. DG/CON-Maintenance- 2020/338, dated 13/04/2023) instructions and details.”
- 36.0 It is clarified that being occupied building site will be made available in phases/parts only. The work may also be required to be executed during odd hours/night shift/holidays for which nothing extra shall be paid.
- 37.0 ~~The agency will prepare and submit all drawings sub head wise related to the E&M services as per site requirement for obtaining approval of the Engineering in charge or his authorized representative. Nothing extra shall be paid on this account.~~**

TERMS AND CONDITIONS (SH- III SERVO VOLTAGE STABILIZER WORK)

1. The work shall be carried out as per CPWD specification amended upto date & entire satisfaction of Engineer-in-charge or his authorized representative [AE (E) / JE (E)].
2. No T&P shall be issued to the agency by the department.
3. The Servo stabilizer & Invertors shall be kept neat and clean for which nothing extra shall be paid.
4. Total number of Servo stabilizer and invertors are as per Inventory attached.
5. All equipments will be handed over for AMC in perfect working conditions and thus it will be responsibility of the firm to hand over the equipments in perfect working condition after expiry of the AMC.
6. Agency has to maintain complaint book for maintenance of Servo stabilizer operated line voltage corrector and Invertor same shall be submitted to the Engineer-in-charge or his authorized representative i.e. AE (E) / JE (E).
7. Any damage done to the equipment, building during maintenance shall be responsibility of the contractor and thus contractor shall have to make good the same.
8. Dismantled material shall be returned back to the department at JE (E) store and nothing extra shall be paid for cartage charges.
9. The staff deployed by the contractor shall have good character and shall maintain cordial relation with client department and staff of CPWD.
10. No claim for the absorption of staff in the department shall be entertained. The contractor has to indemnify the department in such eventuality.
11. The Engineer-in-charge or his authorized representative reserve the right to ask the contractor to remove any of the maintenance staff without assigning any reason what so ever, the decision of Engineer-in-charge will be final and binding to the contractor.
12. The contractor shall deploy qualified service technician / Engineer, minimum twice in a month or as and when required.
13. In case of non attending of complaints pertaining to Servo stabilizer is not resolved within 4 hours, then recovery @ Rs. 2000/- per hour Servo stabilizer shall be deducted from the contractor's bill.
14. In case of non attending of complaints pertaining to Invertors is not resolved within 4 hours, then recovery @ Rs. 1000/- per hour Invertors shall be deducted from the contractor's bill.
15. Payment made to the contractor after satisfactory working at site decision of payment shall be final by the Engineer-in-charge.
16. Security restrictions are to be followed by the firm.
17. If the units required major repair or overhauling, a standby unit is to be placed by the firm at free of cost for the period of repairs of the unit.

The scope of work:-

a) For servo voltage Stabilizer

The scope of work covers all spare parts except Main Transformer.

b) For invertors

The scope of work covers all spare parts except Batteries.

c) For Phase Sequence Corrector

The scope of work covers all spare parts.

TERMS AND CONDITIONS (SH- VII CMC of VRV/ VRF Bluestar System)

SCOPE OF WORK FOR AMC OF VRF SYSTEM

By Covering the Machines under AMC the following services shall be provided by the contractor.

- Trained Personnel
- Exclusive Service Delivery Team
- Expert Advice through the Service Specialist Group (SSG)
- Expert monitoring by the Service Quality Assurance Team
- Priority Service
- Preventive Checks

Section I – Inclusion in scope of work of comprehensive maintenance of Service contract

1. The compressor of VRF system will be checked for its proper functioning and if any defect is found, the same will be repaired/ replaced.
2. Checking the Refrigeration system, indoor & outdoor units and ensuring healthy condition of the VRF units quarterly basis.
3. Checking the system for any leaks and rectifying the leaks if found.
4. Checking the Refrigeration control system for proper operations and adjusting the settings when required.
5. Servicing/ cleaning of condenser coil twice in a year (before start of summer season & winter season), if needed shall be arranged by the contractor for which nothing will be paid.
6. Air filters will be inspected on monthly basis and cleaned or replaced if choked or wornout.
7. Replacement of defective remotes of indoor units is included in scope of work.
8. The firm has to carry out servicing, adjustment, lubricants, repair or replacement of necessary parts & gas & make entries accordingly in the maintenance schedule of the VRF system.
9. Examine periodically all safety devices and make all customary safety tests. Systematically examine and adjust all components.
10. Inspecting the indoor/outdoor units and to carry out Preventive Maintenance as per the standard practice.
11. Checking of the Microprocessor controller for its proper functioning and repair/Replacement of the same if found defective.
12. The Company shall send service engineer within 6 hours of the complaint made by the customer for minor resolution.

13. Any other work related to VRF system for proper functioning of VRF system.

a) Compressor	Check for undue vibration Check for symptoms of 'wet' operation of excessive superheat. Check oil level
b) Condenser and Evaporator	Check fins for damage and dust accumulation Clean as necessary.
c) Fans and Motors	Check bearings and lubricate as necessary. Inspect and check fan guard covers.
d) Evaporator, Drains and Drip Tray	Check drip tray for leaks and clean. Check that condensate drain is clear and clean
e) Refrigerant pipe work	Check for vibration and fix all unsteady supports. Clean surface of compressors and reseal as necessary.
f) General Cleanliness	Remove dirt or rubbish from the vicinity of the plant.
g) Electrical and Electronic	Check for damage to flexible conduit, cables etc. Tighten all terminal connections. Inspect control panel and check for signs of overheating. Check integrity of electrical installation.
h) System Operation	Confirm that the system is operating satisfactorily according to the design parameters
i) Performance	Record On and Off coil temperatures of the indoor units. These readings should be recorded on the logbook.
j) Filter elements-Indoor units	Inspect and clean as per manufacturers 'Recommendation.' The control panel shall also be cleaned.

14. Whenever any work or periodic maintenance is carried out, the same shall have to be entered in the register, kept in the Enquiry office or JE, by the representative of the firm.
15. The maintenance and repair work shall have to be carried out as often as required during normal working hours and if required after normal working hours or holidays for which nothing extra shall be paid.
16. The minor complaint must be completely attended within 24 hours and major complaint must be rectified in 48 hours. In case of any particular air conditioning circuit consisting of nos. of outdoor and indoor units remains in-operative, the penalty of Rs 500/- per day per HP shall be deducted from the bill of firm for both minor and major complaint.
17. Condensate drain water pipe cleaning, detection/repairing of pipes for any leakage etc. shall be attended immediately on the same day as & when required otherwise penalty of Rs 200/- per day per circuit shall be deducted from the bill of firm.
18. The work will be carried out by the firm as per Annexure-A for AMC of VRV / VRF system and schedule for maintenance recommended by the manufacturer, for which no thing extra shall be paid by the department.
19. List of periodicity of maintenance of various equipments is listed in Annexure 'B' which is not exhaustive. The list & periodicity can be changed as per the site requirement. The decision in such cases of Engineer-in-charge would be final & binding.

20. In case of failure of compressor, repair of compressor & any charging of gas etc. required, shall be done by the contractor without charging any extra cost i.e. within the scope of work.
21. With the advent of self lubricated parts & assemblies, will be done properly by the firm within the scope of work.
22. Department will provide site for facilitating necessary shutdown for Preventive Maintenance and Break down maintenance as required.
23. Firm is responsible for performance of the system or product.
24. Any other item/activities associated with proper functioning of comprehensive maintenance complete VRF system deemed to have been included in the scope of work.
25. At every Six month the installation shall be got thoroughly checked from OEM & Certificate of Authorized person of OEM shall be submitted by the Contractor for which nothing extra shall be paid.

Section II-Exclusion from scope of comprehensive maintenance service contract

1. This contract does not cover the repair/replacement of ducting/masonry work, shifting of units in part or as a whole.
2. MS Frame work, Sheet Metal work etc that has undergone deterioration due to atmospheric condition/ environmental factor/ inferior water quality.
3. Any kind of civil, structural, scaffolding or excavation works.
4. Repairing of incoming & outgoing cables from bus trunking to outdoor unit cable tray etc.

Assistant Engineer (E)-P
DED-81 CPWD

Executive Engineer (E)
DED-81 CPWD

LIST OF PREFERRED MAKE OF MATERIALS
(FOR E & M WORKS)

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the **Engineer-in-Charge** are listed below. However approved equivalent materials and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market and subject to approval of the alternate brand by the **Engineer-in-Charge**, (See also conditions of contract)

S.No.	Materials/Equipment	Preferred make
Internal Electrical Installation		
1	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO's.	Schneider Electric ACTI-9/ Legrand(DX3)/ L&T(Exora)/Siemens(Betagard)/ABB(SB200M).
2	MCBDB & Loose Wire Box.	Legrand/L&T/Schneider/ABB(Elegance)/Siemens
3	Change Over Switch.	L&T/Havells/HPL/C&S/Legrand/ABB
4	Automatic Transfer switch(ATS)	Cummins/Asco/Russelectric/ABB/L&T/GE
5	FRLS PVC insulated copper conductor single core cable for wiring (ISI marked).	Finolex/RR Kabel/KEI/Polycab/Lapp/Havells/ Pi Square/ Rallison
6	Armoured/Unarmoured telephone cable and Co-axial cable	Delton/Finolex/RR Kable/Bonton/ Polycab/ Lapp/ Pi Square / Rallison
7	MS Conduit (ISI Marked) with Heavy Duty MS conduit pipe Accessories.	BEC/NIC/AKG/RMCON/Steel Kraits Note:- All MS conduit pipe accessories will be same make as that of conduit pipe and will comply to IS/4768 part 2 2003
8	PVC conduit (ISI Marked) with heavy duty PVC conduit pipe accessories	AKG/Norpack/BEC/Precision/Finolex/Astral /Polycab
9	Modular switch, socket/Telephone socket/cable TV socket/Data outlet socket/fan Regulator/GI Boxes and cover plate, blanking plate, Modular MCB etc.	Legrand (Arteor)/Schneider Electric (Zencelo)/MK (Blenze plus)/Havells(Crabtree- Athena)/Honeywell (Citric)/ABB(TVISHA)/ Anchor (WOODS STELLA)
10	PVC Trunking	MK/Legrand/ Schneider/Hager
11	GI pipe	Tata/Jindal(Hissar)/Prakash Surya
12	Synthetic enamel paint	ICI Dulux/Asian/Nerolac/Berger
13	Terminal Blocks and Connectors	Elmex/Wago/Hensel/Connectwell/Essen/L&T
14	Phenolic Laminated Sheet/Bakelite Sheet	Hylam/Formica/Greenlam
15	Cat-6 Cable/Wire & Fiber Optic Cable	Amp/Avaya/Belden/Legrand/Delton/Molex/ Pi Square/ Rallison
16	XLPE insulated PVC sheathed Al./Copper Conductor Armoured/ Unarmoured cable of 1.1 KV grade.	Finolex/ RR Kabel/Universal/ Polycab/ Nicco/ KEI/Havells/ Pi Square/ Rallison
17	GI/Copper Strip and Earthing material	Bharti/Indiana/Slotco
18	Chemical Earthing	JMV LPS Ltd./Pragati Electrocom/Ecosafe/Duval Messien(Terec)
19	Occupancy Sensor/Lighting Control System	Philips/Schneider/Legrand/Siemens
20	LED fittings i/c flood light	Philips/ Lighting Technology/Disano/Regent/Wipro/ Havells/Panasonic
21	Cable Trays Its Accessories	Bec /Rmcon / Indiana /Pilco/Mem
22	Timer Switch & 3 Pole Contractor	L&T/ ABB / Legrand /Siemens
23	Thermoplastic Polycarbonate Junction Box	Hensel /Rittal/ Siemens/ Legrand / Honeywell / OBO
24	UPVC Trunking and accessories	
25	Ceiling Fan/ Exhaust Fan/ Wall Fan/ Ventilation Fan	Usha/Crompton/Orient/Havells/Atomberg
26	Lead acid Battery	Exide/Amara Raja/ HBL/Pulse /Amco / Panasonic

27	LT panel/Outdoor Feeder Pillar	Tricolite Electrical Industries/Control & Switchgears Pvt. Ltd./Milestone/ R.P. Control /Adlec Power Pvt.Ltd./Advance Panels & Switchgear Pvt.Ltd./Schneider/Neptune
28	Variable Frequency Drive (VFD)	Kirloskar/ABB/ schneider
HVAC		
1	VRV A.C (Outdoor/Indoor/Remote Control/Y Joint)	Hitachi/ Mitshubishi Electric (heavy) / General/Daikin
2	Split/Window AC/Cassette AC	Hitachi/ Mitshubishi Electric (heavy) /O-General/ Daikin/Toshiba
3	Copper Refrigerant Piping	Rajco / Mandev / Totaline/Kwality Tubes/Shree Shyam/ RR Shramik
4	Nitrile Rubber Insulation (For Duct / Drain Pipe / Refrigerant Pipe Insulation)	Armaflex/Aeroflex/K Flex/Eurobatex/Superlon
5	UPVC drain pipe	Supreme/Finolex/Astral/Ashirvad
6	Multicore Copper flexible Cable	Finolex/Polycab/RR Kabel/KEI/Havells
7	Two way pressure independent balancing & control valve	Siemens/Danfoss/Belimo
8	Adhesive for insulation	Pidilite/Superlon/Armacell
9	GI/GSS Sheet for ducting	Tata/SAIL/Jindal Hissar
10	Auto air vent	Rapid cool/Emerald/Cimberio
11	Air Handling Unit with coil	Zeco/Edgetech/Waves/Flaktwood/VTS/Systemair
12	Air Washer	Zeco/Edgetech/Waves/Flaktwood/ Humidin/Symphony
13	Axial flow/Centrifugal Fan	Kruger/Greenheck/Wolter/Nicotra/Systemair/ Comefri
14	Balancing Valve	Advance/L&T/Honeywell/Danfoss/Belimo
15	Dash Fasteners	Canon / Fischer /Hilti
16	Variable Pumping System	Grundfos/Armstrong/Xylem ITT/wilo/Kirloskar
17	Chilled/Hot water circulation and Condenser water pump	Grundfos/Armstrong/Xylem ITT/wilo/Kirloskar
18	Electric Motor	ABB / Siemens / Kirloskar / Grundfos / NGEF / Crompton Greaves/Havells
19	CPRX Compound/Tar Felt	Shalimar Tar Product/Asian/Pidilite
20	XLPE insulated PVC sheathed Al./Copper Conductor Armoured/ Unarmoured cable of 1.1 KV grade.	Finolex/ RR Kabel/Universal/ Polycab/ Nicco/ KEI/ Havells
21	Moulded Case Circuit Breaker (MCCB) Thermal Release/ Microprocessor based (Ics=Icu=100%)	Schneider Electric (NSx Series)/Siemens (VL Series)/L&T(Dsine)/Legrand(DPX3)/ABB(TMAX
22	Power/Aux. Contactor ¾ pole	Schneider /L&T/BCH/Siemens/Legrand/ ABB/ C&S/ Havells
23	Potential Transformers/Current Transformer	Automatic Electric/Gilbert & Maxwell/L&T/Kappa
24	LED type, Indicating Lamps/Push Button.	Schneider/ABB/L&T/Siemens/Vaishno/C&S
25	Overload relays with built in Single Phase Preventer	Schneider Electric/L&T/Siemens/ABB/ C&S/ BCH/ Legrand
26	Conventional/Electronic Digital Meters (A/V/PF/Hz/KW/KWH)	Conzerv/L&T/Secure/AE/Siemens/Schneider
27	Timer	Siemens/L&T/Legrand/ABB/Schneider Electric/BCH

28	ACBs (with display)	Siemens (Sentron 3 WL)/L&T(U-Power-OMEGA)/ABB(Emax) PR122 / Schneider Electric (Masterpact NW6.0A)/Legrand (DMX-3MP4).
29	Rubber Mat and Electrical Gloves	Raychem/Honeywell
30	Digital multifunction meter	Conzerv/Siemens/Schenider/Legrand/L&T
31	Cable Glands Double Compression with earthing links	Baliga Lighting/ Comet/Cosmos/ Dowell's/Gripwell/ Raychem
32	Bimetallic Cable Lug/Thimble	Comet /Dowell's/Hax Brass (Copper Alloy India)/ Schneider
33	Programmable logic controller (PLC)	Siemens/L&T/ABB/Allen Bradley
34	Selector Switch & Toggle switch	Salzer (L&T)/Siemens/ Kaycee/ Rishabh/ ABB/ Legrand/Schneider
35	Gun Metal/Brass Valve(ISI marked)(Ball valve/Gate Valve/Globe valve/Non Return valve/Foot valve)	Sant/ Leader/Advance /Kirloskar /L&T/Audco
36	C.I Butterfly/Sluice Valve/NRV/Foot Valve(ISI marked)	Advance/Kirloskar/Sant/Leader/ Audco
37	Y type Strainer	Emerald/Rapid Cool/Sant/Leader
38	MS/GI Pipe	Tata/Jindal (Hisar)/Prakash Surya
39	Forged Steel Fittings/Flanges	Johnson/ VS Forge/JK Forging/ Trueforge/ Indus/ Jainsons
40	Forged steel fittings/flanges (for welding joints)	VS Forge/Kanwal Forge/Johnson/Trueforge
41	Fasteners	Hilti/Fischer/Canon
42	Pipe Hangers/Clamp/Supports	Hilti/Fischer/Euroclamp/GMGR
43	Synthetic Enamel Paint	ICI Dulux/Asian/Nerolac
44	Vibration Eliminator	Resistoflex/D wren/Kanwal
45	Duct damper/Grills/ Diffuser/VCD/Collar damper	Caryaire/Systemair/Dynacraft/Airflow/Ravistar
46	Factory fabricated duct & flanges	Rolastar/Zeco/Ductofab/Technofab/Waves
47	Fan coil unit with fan	Daikin/Carrier/Johnson Control/ Flaktwood/ VTS/ Hitachi/Mitsubishi
48	Filters(Pre/Hepa/BIBO)	Thermodyne/Spectrum/Camfil/American Air Filter
49	Fire damper actuator	Belimo/Siemens/Danfoss/Honeywell
50	Fire and Smoke dampers	Greenheck/Systemair/Airflow/Caryaire
51	Flexible duct connection	Airflow/Rolastar/UP Twiga/Caryaire/Atco
52	Flexible pipe connection	Resistoflex/Easyflex/Diamond/Dunlop
53	Hot water Generator/Humidifier	KEPL/Rapidcool/Emerald/Enmax
54	Inline fan	Kruger/Nicotra/Greenheck/Wolter/Airflow/ Systemair
55	Fiber glass Aluminium faced insulation	UP Twiga/ Owens Corning/ Kimmco
56	PUF insulation	Styrene Packaging & insulations/ Llyod insulation/ Supreme
57	XLPE insulation	Supreme/ Vidoflex/ Trocellen/ K-Flex
58	Expanded Polysterene insulation	Styrene Packing/ Beardsell / ARKC

59	Pre insulated duct	Zeco/ Kingspan/ UP Twiga
60	Pressure/ Temperature Gauge	H Guru/ Fiebig/ Warree/ HD
61	Propeller Fans	GE/ Usha/ Alstom/ Crompton/ Marathon
62	Thermostat/ Humidistat	Honeywell/Johnson/Siemens/Schneider
63	Strip Heater	Das Pass/ Escorts/ Wattco
64	V Belt	Dunlop/ Fenner/ Hilton
65	Variable Frequency Drive	Siemens/Danfoss/ABB/L&T/Allen Bradley
66	Pot Strainer	Emerald/VTM/Rapid Cool
67	Chilled /Hot water Cassette/Wall unit	Carrier/Trane/Daikin/Johnson Control
68	Motorized Butterfly Valve	Honeywell/Belimo/Danfoss/Siemens
70	Water Cooled Chiller	York-Johnson Control/ Dunhum Bush/ Daikin Mcquay/ Trane
71	Cooling Tower	Bell/ Paharpur/ Mihir/Flowtech
72	Ultra Violet germicidal irradiation System	Ruks/Trimed/Steril-Aire
73	Refrigerant Gas	R-22/32/134A/410A etc As Per Required Ac Units

Note:

1. Department reserves the right to reject any material used without Prior approval from Engineer-in-Charge. No payment shall be made for such rejected material.
2. Public Procurement (Preference to Make in India) order 2017 issued by competent authority of Government of India shall be implemented during selection of materials and execution of work accordingly. Any Manufacturer if not included in the approved make list, may be considered by the Engineer-in-Charge provided such manufacturers comply the above policy along with their product meeting the specifications and other details of the required item.
3. Material specified in the list of Preferred makes shall be got approved by Engineer-in-charge before use in the work. Decision of Engineer-in-charge shall be final in this regard.
4. Material not specified in the list of preferred makes shall be approved by Engineer-in-charge in consultation with NIT approving authority before use in the work. Decision of Engineer-in-charge shall be final in this respect.

Assistant Engineer (E)-P
DED-81 CPWD

Executive Engineer (E)
DED-81 CPWD

SCHEDULE OF WORK

Name of Work :- RMO various E&M Services at NIC 'A' Block CGO Complex Lodhi Road New Delhi. Reg - 2026-27. (SH:- SITC/Replacement of EI Fixtures i.e. LED Fiittings, air curtains, 3D Signage board, VFD of chiller unit, ACB, Air conditioning, AMC of water softening plant & RO, Kitchen equipment's and other miscellaneous work).

S. No	Description of Items	Qty.		Rate	Unit	Amount
SH-I	<u>VFD OF CHILLER UNIT</u>					
1	Supply, Installation, Testing and Commissioning of VFD of capacity 90KW, 415 V AC, Normal Duty, current rating 169 Amp which shall be capable of operating on the AC Supply Voltages applicable to the end site, with suitable tolerance for variations in the incoming mains power supply. The applicable supply voltage range must meet one of the below:- 380 - 480 VAC + 10% VFD's must be capable of continuous operation with the connected load with up to 3% voltage imbalance between the incoming phases. VFD's shall be capable of operating with a mains supply frequency range of 50 Hz + 2%. The VFD shall be capable of variable frequency variable voltage output in the range 0 - 100Hz and 0 - Supply Voltage VFD's must be available with a minimum 1P22 rating. VFD's shall be capable of controlling the motor with a constant or variable torque output characteristic in order to operate the desired load. Selection between constant and variable torque operation should be easily selectable by parameters within the VFD. i/c Dismantling of existing VFD from chiller & buy back to contractor.	1	Nos	527041.00	Each	527041.00
2	Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required.					
a)	150mm dia	2	Nos	9644	Each	19288.00
3	Providing and fixing in position industrial type pressure gauges with gun metal / brass valves complete etc. As required.	4	Nos	1491	Each	5964.00
4	Providing & fixing in position industrial type mercury thermometers complete etc. as required.	4	Nos	1132	Each	4528.00
SH-II	<u>KITCHEN WORK</u>					
1	S/I/T/C of 450 mm dia, 3000 CFM, 50 mm wg static pressure (AMCA Certified) Axial flow fan made out of MS casing having cast aluminium alloy impeller with high efficiency acro-foil section blade directly driven by 0.5 HP / 4 pole TEFC induction motor suitable for 3 phase 415 volt 50 hz sound level at 3 mtr 74 DB i/c bird screen complete etc as required.	5	Nos.	54967.00	Each	274680.00
2	Supplying & Fixing flexible canvas connector of 450-550 GSM PVC-Coated fabric between duct and fan/AHU, suitable for 20 mm wg static pressure including necessary GI Strips, bolts, nuts and complete as per specification	2	Nos.	2705.00	Each	4502.00

Correction = Nil, Addition = Nil, Overwriting = Nil, Deletion = Nil,

AE(E)/P

3	Cleaning of kitchen hood kitchen equipments like ovens, grills, Exhaust Fan, fryers, hot-plates, etc. cleaning of the G.I. ducting complete with Suma 'D' chemical, scrapers etc. & removing the heavy carbonaceous and bake done deposits from oil/grease from the hoods, ducts and SS filters etc shifting and throwing the scrapped/ removed waste from site to outside the building etc. complete as reqd. (2 job per month)	12	Job	11106.00	P/Job	64392.00
4	Supplying & laying of one number PVC/XLPE insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 KV grade armoured Cable on wall Surface with help of clamp of following size for connection as required					
a)	3 X 10 sq.mm .	60	Mtr	356.00	Mtr	20220.00
b)	3.5 X 35 sq.mm .	60	Mtr	655.00	Mtr	36960.00
5	Supplying & laying of one number PVC/XLPE insulated and PVC sheathed/ Copper conductor cable of 1.1 KV grade flexible Cable on wall Surface with help of clamp of following size for connection as required					
a)	3 X 6 sq mm	60	Mtr	535.00	Mtr	32100.00
6	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
a)	8 way (4 + 24), Double door	1	Nos.	10724	Each	10724.00
7	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)	Triple pole	8	Nos.	1070	Each	8560.00
8	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 A 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	5	Nos.	1707	Each	8535.00
9	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)	3 X 10 sq. mm (22mm)	10	Nos.	312	Each	3120.00
b)	3½ X 35 sq. mm (32mm)	2	Nos.	437	Each	874.00
10	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	130	Mtr	139	P/Mtr	18070.00

SH-III	<u>SERVO VOLTAGE STABILIZER WORK</u>					
1	Providing comprehensive maintenance of following capacity servo automatic voltage stabilizer (C-MOS make) 3 phase, 50 hz suitable for unbalanced supply and unbalanced load & replacement of components like carbons brushes, transistors, resistances, diode, indicating lamp, defective inter connections except main transformer i/c PCB Card i/c servicing, cleaning testing periodical checking & attending call back servicing as and when reqd.					
a)	30 KVA Oil Cooled	4	job for	2621.00	per job/ month	62904.00
		6	months			
b)	300 KVA	1	job for	9969.00	per job/ month	59814.00
		6	months			
c)	400 KVA	1	job for	14015.00	per job/ month	84090.00
		6	months			
2	Providing comprehensive maintenance of following capacity automatic phase sequence corrector (C-MOS make) for various lifts i/c. replacement of all defective/ burnt out/ worn out minor out spare parts i/c servicing, cleaning, testing, periodical checking & attending call back servicing as and when required.					
a)	25 Amp	28	job for	419.00	per job/ month	70392.00
		6	months			
b)	40 Amp	8	job for	657.00	per job/ month	31536.00
		6	Months			
c)	100 Amp	7	job for	1303.00	per job/ month	54726.00
		6	Months			
SH-IV	<u>AIR CONDITIONER WORK</u>					
	CASSETTE TYPE SPLIT UNITS					
1	Supplying, Installation, Testing and Commissioning of Air Cooled Cassette type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), R-32/R410A/R-407 Green Refrigerant, wireless Remote, inbuilt drain pump, suitable for 400/230V, 50 Hz ,1 /3 phase AC supply, including surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 5.5 Mtr (IDU to ODU), copper power and control cable upto 5.5 Mtr (IDU to ODU) including drain pipe, the system shall be capable of performing cooling, dehumidification, Air circulation, filtration & ventilation of following capacity with Scroll/rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed					

	Circuit Board (PCB) as specified. The system shall be able to deliver 100% of the rated capacity as per relevant IS Code. The lab testing reports as per IS: 1391 shall be submitted from National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited as per International Electrotechnical Commission (IEC) 17025 standards/Central Power Research Institute (CPRI)/ Electrical Research and Development Association (ERDA) with Original Equipment Manufacturer (OEM) etc. complete as per CPWD specification and as per IS: 1391 as required.					
a)	2.5 TR with 5 Star BEE Rating	2	Nos.	118123	Each	236246.00
	HI - WALL SPLIT SYSTEMS					
2	Supplying , Installation, Testing and Commissioning of Air Cooled Hi Wall split type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 3.5 Mtr (IDU to ODU) i/c drain pipe R-32/R-410/ R-407 Green Refrigerant, wireless Remote control, suitable for working between 180- 260V with low & high voltage cutoff and 50 hz ,1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / rotary compressor. The system shall be able to deliver 100% of the rated capacity upto 42 0C. Min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). Must comply : Electrical cable IS 694 or IS 9968 temperature sensing control IS /International Electrotechnical Commission (IEC) 60730, hermetic compressor IS 10617, heat exchanger IS 11329, capacitor IS 2993 and motor IS 12615. Complete as per CPWD specification and IS : 1391 Part II 2023. The system shall be able to operate up to 50 0C (out door ambient temperature). Inverter Type - Cooling only					
a)	1.5 TR with 5 Star BEE Rating	7	Nos.	43539	Each	304773.00
b)	2.0 TR with 5 Star BEE Rating	7	Nos.	57396	Each	401772.00
	WINDOW AC UNITS					
3	Supplying , Installation, Testing and Commissioning of Window type Air conditioners complete with copper power cable upto 3 Mtr, wireless Remote, suitable for working between 180- 260V with low & high voltage cutoff and 50 hz ,1					

	phase AC supply capable of performing, cooling, dehumidification, air circulation, R-32/R-410A /R-407B Green Refrigerant with Scroll / rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB), antifreeze thermostat on the coil as a safety feature, complete with fixing including T&P & labour etc as required complete in all respect as specified of following capacity. Sound level of up to 50dB inside the room is acceptable. The unit shall be in confirmation with IS 1391 Part-I 2023 and CPWD Specification. The system shall be able to deliver 100% of the rated capacity upto 42 0C. The system shall be able to operate up to 50 0C (out door ambient temperature).					
a)	1.5 TR with Inverter 5 Star BEE rating	15	Nos.	40074	Each	601110.00
SH-V	<u>WATER SOFTENING PLANT</u>					
1	Supply & replacement of strongly Acidic Cationic Resin to the pressure vessel of softner for processing of water for Make of Softner DIONIC Capacity :50 Cu.m/Reg Quantity :600 Ltrs Make: Indion 220 Na/ Rohm Hass Or Equivalent etc as required.	300	Ltr	275	P/Ltr	82500.00
2	Supplying, cleaning of Regenerating Chemical for water softening plant(s)-2 no & its allied accessories at NIC Building. The job shall include charging of water softening plant with Brine (Solution of common grade industrial Salt) Qty: 60 Kg /Charging at periodic intervals i.e 12 times a month to keep the output hardness of water within acceptable limits. The averaged requirement of charging shall be app. 12 per Month. It shall be within the scope of work to replace any component /part /chemical that may be the part of water softening system but not mentioned above. The Chemical to Test the Raw water /Soft water before & after charging are included in the Scope of work etc as required. (2 PLANTS)	6	Months	55544	P/Month	333264.00
SH-VI	<u>3D Display illuminated Board</u>					
1	Supplying, fabricating , Testing and commissioning of 3 dimensional LED channel illuminated outdoor type IP-66 display signage board as per approved colour and design consisting of CNC-cut 3D letters in English/Hindi/English & Hindi letter i/c scaffolding ,tools ,fasteners ,consumables etc requirement at site as per below mention technical specification:-	100	Sq ft	3562.00	P/Sq ft	356200.00

	A. 3D LED LETTERS o Fabrication of 3D letters in English/Hindi/English & Hindi as per approved design. o Front Face: 4mm thick high-glow cast acrylic (approved colour). o Sides: 22 SWG Stainless Steel (Non-magnetic) with smooth finish. o Collars: SS collars for elevated 3D effect and enhanced aesthetics. o Back Sheet: Premium GI sheet properly cut, folded, and sealed.					
	B. LED MODULES & ELECTRICALS o High-brightness LED modules (1.2W–1.5W each) with PC optical lens. o Minimum 90 lumens/Watt with inbuilt protective circuit for stable, flicker-free glow. o Modules arranged in two or more rows to provide uniform illumination. o Suitable for 12V DC operation with required drivers and wiring. o Complete internal wiring, insulation, and power connections provided.					
	C. BASE PANEL & STRUCTURE o Base surface made of 3mm ACP sheet (front & sides). o ACP firmly mounted on 1" × 1" MS square tube frame, spacing not more than 3 ft. o Back side covered with GI sheet for strength and safety. o All joints sealed with waterproof silicone to ensure complete weatherproofing.					
	D. INSTALLATION o On-site installation with required clamps, fasteners, supports, and consumables. o Testing & commissioning with 220V, 50Hz AC supply. o Work executed under direction of Engineer-in-Charge.					
2	Supplying, fabricating , Testing and commissioning of 3 dimensional LED channel illuminated outdoor type IP-66 display signage board as per approved colour and design consisting of CNC-cut 3D letters in English/Hindi/English & Hindi letter i/c scaffolding ,tools ,fasteners ,consumables etc requirment at site as per below mention technical specification:-	60	Sq ft	4268.00	P/Sq ft	256080.00

	A. 3D SS LETTER FABRICATION - o Letters in English/Hindi/English & Hindi as per approved design. - o Front: 22 SWG Stainless Steel (Non-magnetic) CNC-cut for high precision. - o Sides: 22 SWG Stainless Steel with smooth and clean edges. - o Back: Fabricated using ACP sheet properly bent and fitted. - o Side Glow Feature: - o 3mm Acrylic sheet fixed on the back perimeter of each letter. - o LED light emitted from behind creates a uniform glow along the sides.					
	B. LED MODULES & INTERNAL WIRING - o High-brightness LED modules 1.2–1.5W with optical lens, minimum 90 lumens/Watt. - o LEDs fixed in a manner to ensure even side illumination around the acrylic strip. - o 12V DC operation with proper wiring, drivers, and safety elements. - o Flicker-free performance with inbuilt voltage protection.					
	C. BASE STRUCTURE & PANELLING - o Letters to be fixed on 3mm ACP sheet (front). - o Base structure fabricated with 1" × 1" MS square tube frame, spacing not more than 3 ft. - o Back side enclosed with GI sheet for strength and stability. - o All joints sealed with high-grade silicone for waterproofing.					
	D. SITE WORK - o Complete installation with fasteners, clamps, hardware, cutting, drilling, wiring. - o Testing & commissioning using 220V, 50Hz AC supply. - o Work executed as per CPWD norms and Engineer-in-Charge.					
3	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.					
a)	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	100	Kg	172.60	P/Kg	17260.00

SH-VII	CMC OF VRV/VRF BLUESTAR SYSTEM					
1	Comprehensive maintenance of following capacities blue star make VRV/VRF System i/c quarterly visit & service of the system , unlimited breakdown calls & repair & replacement of indoor outdoor PCB, Compressor, Expansion valve, indoor & outdoor Fan Motor, cooling & condenser coil repairing, Top up of suitable refrigerant gas when required complete as per terms and conditions attached.					
a)	26 HP VRV/VRF Unit Model No IVRFB26-THN	1	job for		Per Job	
		6	Months	436.00	P/Month	68016.00
b)	22 HP VRV/VRF Unit Model No IVRFB22-THN	1	job for		Per Job	
		6	Months	436.00	P/Month	57552.00
SH-VIII	<u>1x4 LED Fitting & Rising mains with accessories</u>					
1	Supply, installation, testing and commissioning of recessed mounted luminaries with high transitivity diffusers for indirect light of (1×4) Feet(normal size) having 30 watt, , with CRCA housing with lumen efficacy of minimum 110 lumen/watt, having minimum lumen output of 3300 lumens, color temp- 5700-6500 K ,THD<5%, P.F+>0.95 CRI > 80, IK02 class 1 life-50000Hrs directly on ceiling in recess/suspension arrangement i/c cutting & repairing of gypsum false ceiling if required making connection with 3X1.5 Sq mm FRLS PVC insulated copper conductor cable from existing points i/c saddling & tapping of cable i/c providing and fixing suspension with steal fastener & chain complete as required.	50	Nos	4531.00	Each	226550.00
3	Supplying, installation by suspension on ceiling, testing and commissioning of following capacity Sandwich Type Rising Mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every metre, adopter box and copper flexible for joints, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required					
a)	400 A, Isc= 25kA for 1 sec	24	Mtr	16196.00	P/Mtr	388704.00

4	Supplying, installation, testing & commissioning of following capacity Plug In/ tap off box on the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete etc. as required					
a)	125 A, Isc= 15kA for 1 sec	8	Nos	9104.00	Each	72832.00
5	Supplying, installation, testing & commissioning of following capacity End Feed Unit for the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required					
a)	400 A, Isc= 30kA for 1 sec	1	Nos	11888.00	Each	11888.00
8	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, Ics=100% Icu and Operational Voltage 690V etc. as required.					
a)	100 A,30KA,FPMCCB	8	Nos	8127.00	Each	65016.00
9	Replacement of following capacity ACB with new Air circuit breakers with LCD display and LED fault indication, LSIN+G protection release for adjustable OC, SC & EF protection, Instantaneous protection & over temp. protection ,ZSI, UV coil suitable for operation on 415 volt, 3 ph , 50 Hz ac supply , horizontal draw out , motorized , inbuilt thermal memory , 4 Nos NO/NC auxiliary contacts, double isolation features , in the existing LT panel i/c dismantling and modifying the chamber as per new ACB's making & reconnection of main incoming cables , modification of front cover/ door of ACB's compartment rewiring the control wiring of Metering & electrical interlocking as reqd. or any other related work to make it complete with the existing system etc. complete as reqd.					
a)	2000 A ,Three pole, 50 kA breaking capacity	1	Nos	311004.00	Each	311004.00

SH-IX	<u>Miscellaneous Acoustic lining work</u>					
	Supplying, fixing acoustic lining on wall and ceiling of AHU rooms with 50mm thick, density 32 kg/cu.m resin bonded glass fiber insulation friction fixed in 610mm x 610 mm frame work made of 25X50X50X50X25 mm made out of 0.6mm thick GI sheet U shaped channel and covered with reinforced fiber glass tissue and finished with 0.80 mm perforated aluminium sheet etc. complete as required and as per specifications.	500	sq.m	1057.00	P/Sq.m	528500.00
	Total Rs.					5722287.00

Assistant Engineer (E)-P
DED-81 CPWD

Executive Engineer (E)
DED-81 CPWD