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Name of Work: Upgradation of Electrical work in HMP Flats at South Avenue under Sub Div-I, DED-201 in accordance with Civil work. (SH: Partial/ full upgradation work in Flat No. 112, 113, 126, & 151 and other Flats at South Avenue).

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Assistant Engineer(E) P
DED-201, CPWD
B.K.S. Marg, New Delhi

Executive Engineer(E)
DED-201, CPWD,
B.K.S. Marg, New Delhi

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

The Executive Engineer (E), DED-201 CPWD, 5th Floor, Pamba Block, MP Flats, B.K.S. Marg, New Delhi on behalf of President of India invites online percentage rate tender on open bid system registered contractors of appropriate class under **Building and Road Category** in CPWD for the following work:-

S. No.	NIT No.	Name of work & Location	Estimated cost put to tender	Earnest Money	Period of completion	Last date & time of online submission of bid, copy of receipt of deposition of original EMD, and other documents as specified in the NIT	Time & date of opening of Technical Bid
1	2	3	4	5	6	7	8
1	144/2026-27/DED-201	Upgradation of Electrical work in HMP Flats at South Avenue under Sub Div-I, DED-201 in accordance with Civil work. (SH: Partial/ full upgradation work in Flat No. 112, 113, 126, & 151 and other Flats at South Avenue)	Rs. 25,06,167/-	Rs. 50,123/-	03 Months	03.08.2026 4:00 PM	03.08.2026 4:30 PM

**** To be filled by EE.**

- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and is in possession of all the documents required.
- Information and Instructions for bidders posted on website shall form part of bid document.
- The bid document consisting of 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 <http://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
Bidders are advised to keep visiting the above mentioned web-sites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.
- But the bid can only be submitted after depositing of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. (The EMD document shall only be issued from the place in which the office of receiving division office is situated). The bidder will deposit EMD in the form of Insurance surety bond, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee issued by a Commercial Bank against EMD / e-transfer through bharatkosh.gov.in in favour of Executive Engineer (E), PWED-II,

Addition: NIL Overwriting: NIL Correction: NIL Deletion: NIL

CPWD, New Delhi, in the office of Executive Engineer (E), PWED-II, CPWD, New Delhi or any Executive Engineer, CPWD within stipulated time. The same can also be deposited through bharatkosh.gov.in by selecting urban development & poverty alleviation, under EMD head by further selecting PAO: - 043144, PAO (NDZ), CPWD, MOUD, New Delhi, their after DDO-143174, Executive Engineer (E), PWED-II, CPWD New Delhi. Earnest money shall be returned to the unsuccessful bidders on completion of e-tender and uploading the scanned copy of receipt of Bharatkosh is mandatory.

The contractor already registered on the e-tendering portal will have option to continue by paying tender processing fee up to one year from the date of registration, or to switch over to (new) registration without tender processing fee any time. All new registrations from 01.04.2015 will be without tender processing fee.

6. "Bid Security Declaration" accepting that if any tendered withdraw or modify their bids during period of validity etc., they will be suspended for the time specified in the tender documents.
7. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed, they can be imparted training on online bidding process as per details available on the website.
8. 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 the scanned and uploaded document as specified in tender documents shall be submitted by the lowest bidder within a week physically in the office tender opening authority.
9. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has submitted the documents as per terms of the NIT.
10. The intending bidder must have valid class-III digital signature to submit the bid.
11. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
12. Contractor can upload documents in the form of JPG format and PDF format.
13. Contractor must ensure to quote percentage above or below or at par for civil work as well as electrical portion in template (Abstract sheet). The column meant for quoting percentage in figures appears in pink colour and the moment percentage is entered, it turns sky blue. However, if a tenderer 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.
14. If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in CPWD. The department reserves the right to verify the particulars furnished by the applicant independently.
15. Integrity Pact shall be treated in the same manner as other components of the bid document. In e-tendering, the intending bidder does not sign any document physically and entire bid document is submitted through digital signature. Since IP is a part of bid document no separate physical submission is required with other documents to be submitted in the office of tender opening authority. In addition to others component of bid document, the Integrity Pact along shall be signed between Executive Engineer and successful bidder after acceptance of bid.
16. All cess/duties/taxes as applicable on the date of receipt of tender shall be borne by the contractor. The contractor shall quote his rates considering all such cess/duties/taxes.

Contractor must have GST registration. No reimbursement shall be made for taxes paid like GST etc.

17. The bidders are advised to inspect and examine the site & 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.
18. 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 condition (s) of any sort including conditional rebate will be summarily rejected.
19. 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
20. The tenderer should also read the General conditions of contract for CPWD works 2023 (maintenance work) modified/Amended up to last date of submission of tender, published by DG CPWD, Nirman Bhawan, New Delhi which will be a part of the Agreement.
21. 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.

Provision for Labour Camp”: (No. CSQ/C&M/C37(8)/2005/688, dated, 07.07.06.

22. The contractor shall have to make his own arrangement for housing facilities for staff and labour away from site and shall have to transport the labour to and for between construction site and labour camp at his own cost. No. labour huts will be allowed to be constructed at the site. The decision about store at site shall rest with the Engineer-in-charge and the contractor shall have no claim on this account.
23. This bid is being invited for repair/rehabilitation/upgradation of the bungalows primarily allotted to the Member of Parliament. The contractor has to prepare the programme in consultation with Engineer-in-charge as per requirement and the contractor has to augment the resources accordingly.
24. Contractor can upload documents in the form of JPG format and PDF format.
25. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.
In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as “0”. Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as “0” (ZERO).
26. All needful statutory provision to be adopted at site to tackle epidemic/pandemic or similar situation of Covid-19 shall be done by the agency and expenditure on the same shall be borne by the contractor.

27. List of Document to be scanned and uploaded within the period of bid submission:

- (i) Insurance surety bond, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee issued by a Commercial Bank against EMD / e-transfer through bharatkosh.gov.in by selecting urban development & poverty alleviation, under EMD head by further selecting PAO: - 043144, PAO (NDZ), CPWD, MOUD, New Delhi. **(Note 1: - EMD Should be in favour of Executive Engineer(E), PWED-2, CPWD, NEW DELHI. Note 2 : 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.)**
 - (ii) Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, CPWD (The EMD document shall be issued from the place in which the office of receiving division office is situated).
 - (iii) Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class.
- (Undertaking Form Enclosed Pg. 07)**
- (iv) Copy of Pan Card.
 - (v) ERP Training Certificate issued by National CPWD Academy (NCA), Ghaziabad / Regional Training institute, CPWD.
 - (vi) Copy of enlistment order of CPWD contractor in appropriate class **(Building and Road)** category.
 - (vii) **The agency should upload Bank Account Details registered with his firm like Bank name, A/c Number, IFSC Code, A/c name on blank paper/firm letter head with valid email ID and Mobile No. or Bank Pass Book having details of Account.**
 - (viii) Any other Document as specified in the NIT
 - (ix) Copy of GST Registration Certificate of the state in which the work is to be taken up, if already obtained by the bidder.

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

"If work is awarded to me, I/We shall obtain GST registration certificate of the state, in which work is to be taken up, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard."

Note: - The lowest bidder is required to produce original document on or before or at the time of submission of performance Guarantee Money which are uploaded by the bidder at the time of bid submission otherwise Performance Guarantee Money shall not be accepted and EMD shall be forfeited.

Assistant Engineer(E) P
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Executive Engineer(E)
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INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR

E-TENDERING

1. The Executive Engineer of all divisions of CPWD should receive the original EMD for tender of other division.
2. The NIT approving authority / EE at the time of issue of NIT shall also fill and upload the following prescribed format of receipt of deposition of original EMD along with NIT: -

Receipt of deposition of original EMD (Receipt No..... / date.....)	
1.	Name of work: Upgradation of Electrical work in HMP Flats at South Avenue under Sub Div-I, DED-201 in accordance with Civil work. (SH: Partial/ full upgradation work in Flat No. 112, 113, 126, & 151 and other Flats at South Avenue)
2.	NIT No.: 144/2026-27/DED-201
3.	Estimated Cost: Rs. 25,06,167/-
4.	Amount of Earnest Money Deposit: Rs. 50,123/-
5.	Last date of submission of bid: 03.08.2026 upto 4:00 PM <i>(*To be filled by NIT approving authority/EE at the time of issue of NIT and upload along with NIT)</i>
1.	Name of Contractor#
2.	Form of EMD#
3.	Amount of Earnest Money Deposit#
4.	Date of submission of EMD#
Signature, Name and Designation of EMD receiving officer (EE/AE(P)/AE/AAO) along with officer stamp	
(# To be filled by EMD receiving EE/DDH)	

3. The Executive Engineer receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting authority. The receipt can also be issued by AAO and any subordinate gazetted authority as authorized by the Engineer-in-charge / DDH.
4. The Executive Engineer receiving original EMD shall also intimate tender inviting Executive Engineer about deposition of EMD by the agency by email/fax/telephonically.
5. The original EMD receiving Executive Engineer shall release the EMD after verification from the e-tendering portal website (<http://etender.cpwd.gov.in> or www.cpwd.gov.in) that the particular contractor is not L-1 tenderer and work is awarded.
6. The tender inviting Executive Engineer will call for original EMD of the L-1 tenderer from EMD receiving Executive Engineer immediately.
7. **If the EMD is deposited in Sub Division Office then it shall not be considered and tender shall be rejected.**

Undertaking Form

UNDERTAKING FOR ASSOCIATING VALID ELECTRICAL CONTRACTOR LICENSE HOLDER

1. Name of Work: Upgradation of Electrical work in HMP Flats at South Avenue under Sub Div-I, DED-201 in accordance with Civil work. (SH: Partial/ full upgradation work in Flat No. 112, 113, 126, & 151 and other Flats at South Avenue)
2. NIT No.: **144/2026-27/DED-201**
3. Estimated Cost. **Rs. 25,06,167/-**
4. Amount of Earnest Money Deposit **Rs. 50,123/-**
5. Last date of submission of bids 03.08.2026 upto 16:00 Hrs.

I undertake that I will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class after acceptance of tender along with Performance Guarantee otherwise department shall forfeit the deposited EMD absolutely & shall reject my/our tender and debar me/us from re-tendering for this work

Signature :-.....

Agency Name :-.....

Agency Address :-

.....

.....

CPWD-6 for e-Tendering

1. Online Percentage rate bids are invited on behalf of President of India from registered contractors of appropriate class under Building and Road Category in CPWD for the work of “Upgradation of Electrical work in HMP Flats at South Avenue under Sub Div-I, DED-201 in accordance with Civil work. (SH: Partial/ full upgradation work in Flat No. 112, 113, 126, & 151 and other Flats at South Avenue)

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

- 1.1 The work is estimated to cost **Rs. 25,06,167/-** This estimate, however, is given merely as a rough guide.
 - 1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. C.P.W.D.7 which is available as a Govt. of India Publication and also available on website www.eprocure.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 **03 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. (i) The site for the work is available and will be handed over in phased manner or in parts.
(ii) The work in this tender will be carried out primarily in the area under the DED-201. However, in case of necessity, work can be got executed anywhere under the jurisdiction DED-201. The contractor shall not claim anything extra on this account.
5. The bid document consisting of plans, specifications, the schedule of quantities of the various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <http://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the percentage rate any number of times but before last time and date of submission of bid as notified.
8. The contractor already registered on the e-tendering portal will have option to continue by paying tender processing fee up to one year from the date of registration, or to switch over to (new) registration without tender processing fee any time. All new registrations from 01.04.2015 will be without tender processing fee.

9. Insurance surety bond, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee issued by a Commercial Bank against EMD / e-transfer through bharatkosh.gov.in by selecting urban development & poverty alleviation, under EMD head by further selecting PAO:- 043144, PAO (NDZ), CPWD, MOUD, New Delhi, their after DDO-143174, Executive Engineer (E), PWED-II, 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 inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD document shall be issued from the place in which the office of receiving division office is situated). The EMD receiving Executive Engineer shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting Executive Engineer in the NIT. **(Note 1: - EMD Should be in favour of Executive Engineer(E), PWED-2, CPWD, NEW DELHI. Note 2 : 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.

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

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week Physical EMD of the scanned copy of EMD uploaded shall must have to be deposited in Division Office.

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

The bid submitted shall be opened at 4:30 PM on 03.08.2026.

10. The contractors registered prior to 01-04-2015 on e-tendering portal of CPWD shall have to deposit bid processing fee at existing rates, or they have option to switch over to the new registration system without bid processing fee any time.
11. **The Bid submitted shall become invalid if:**
- The bidders are found ineligible.
 - The bidders does not upload all the documents (including Copy of certificate of Registration for GST) as stipulated in the bid documents.
 - The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD. (The EMD document shall only be issued from the place in which the office of receiving division office is situated).
 - If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.
 - If tenderer does not quote any percentage above or below or at par on the total amount of the tender or any section head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

- In case of invalid bid as above, the bidder/s shall not be allowed to participate in the retendering process of the work.
- vi. Copy of enlistment order of CPWD contractor in appropriate class (**Building and Road**) category.
 - vii. Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class.
 - viii. ERP Training Certificate issued by National CPWD Academy (NCA), Ghaziabad / Regional Training institute, CPWD.
 - ix. The agency should upload Bank Account Details registered with his firm like Bank name, A/c Number, IFSC Code, A/c name on blank paper/firm letter head with valid email ID and Mobile No. or Bank Pass Book having details of Account.
12. 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 whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.
 13. 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 circumstance which may influence or effect their bid. A bidders 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 and plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents 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 plants etc., will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
 14. 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.
 15. 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
 16. 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.

17. 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 as 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 Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
18. 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.
19. The bid for the work shall remain open for acceptance for a period of 30 (Thirty) days from the date of opening of bids in case of single bid system and Further:
"Bid Security Declaration" accepting that if any tendered withdraw or modify their bids during period of validity etc., they will be suspended for the time specified in the tender documents.
20. The main contractor has to associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of minor component(s) within prescribed time i.e. within 10 days (Ten Days) from the date of submission of performance guarantee. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of minor component(s). (If applicable)

In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of minor component. The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of such agency, he shall direct the contractor to change the agency executing such item of work and this shall be binding on the contractor.(If applicable)
21. In case the agency fails to submit MoU & eligibility documents mentioned for both minor component of Horticulture and of specialized agency to be associated for executing the work within 10 days (Ten Days) from the date of submission of performance guarantee, it shall be construed as non-performance and the PG shall stand forfeited in full and shall be absolutely at the disposal of the President of India.
22. This Notice inviting Bid shall form a part of the contract document. The successful bidders/contractors, on acceptance of his bid by the Accepting Authority, shall within **03 Months** from the stipulated date of start of the work, sign the contract consisting of:-
 - a. The Notice inviting Bid all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b. Standard C.P.W.D Form 7 or other standard CPWD Form as applicable.

**Signature of Divisional officer
For & on behalf of President of India**

**Executive Engineer (E)
DED-201, CPWD, New Delhi**

On non-judicial stamp paper of minimum Rs. 100

(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
Form of Bank Guarantee for Earnest Money Deposit /Performance Guarantee/Security Deposit/Mobilization Advance

1. Whereas the **Executive Engineer(E), DED-201, B.K.S. Marg, New Delhi-110001** CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under.....(NIT number).....dated..... for..... (name of work). The Government has further agreed to accept irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)*..... as Earnest Money Deposit from (name and address of contractor) (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR

Whereas the **Executive Engineer(E), DED-201, B.K.S. Marg, New Delhi-110001** CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number.....with(Name and address of the contractor)..... (hereinafter called "the Contractor") for execution of work.....(Name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)..... as **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement

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

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

Date

Witnesses :

1. Signature.....
Name and address

Authorized signatory

Name

Designation

Staff Code no.

Bank Seal

2. Signature.....
Name and address

*Date to be worked out on the basis of validity period of 03 Months 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-201, डॉ0बी0डी0 मार्ग, 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-201, CPWD
B.K.S. Marg, New Delhi.

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

(Proforma for extension of BG to be issued 30 days before its expiry)

भारत सरकार
केन्द्रीय लोक निर्माण विभाग
दि.वै.सं-201, डॉ0बी0डी0मार्ग, नई दिल्ली

To

The (Name and address of Contractor)...

.....
.....

Sub : Extension of Bank Guarantee number.....dated..... issued by(Name of Bank)..... (Name of work:)

Agreement No.....

Dear Sir,

The Bank Guarantee number.....dated..... submitted by you for the above mentioned work as security deposit/performance guarantee/mobilization advance/earnest money deposit (as applicable) is valid upto.....

The validity of the aforesaid bank guarantee needs to be extended because.....(give reasons).....

You are, therefore, requested to get the validity of the said Bank Guarantee extended upto.....and submit the same to this office within 03 Months from the issue of this letter, failing which it shall be encashed without further notice.

Yours faithfully,

Executive Engineer (E)
DED-201, CPWD
B.K.S. Marg, New Delhi.

[Note for EE(E): If extended Bank Guarantee is not received by the prescribed date, action for encashment must be initiated].

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE	Delhi	CIRCLE	--
BRANCH	E & M	DIVISION	DED-201
ZONE	NDZ -2	Sub. Division	I

Percentage Rate Tender & Contract for Works

Tender for the work of: - Upgradation of Electrical work in HMP Flats at South Avenue under Sub Div-I, DED-201 in accordance with Civil work. (SH: Partial/ full upgradation work in Flat No. 112, 113, 126, & 151 and other Flats at South Avenue)

- (i) To be submitted **online** up to 4:00 PM on **03.08.2026** to Executive Engineer (E), DED-201, CPWD, B.K.S. Marg, New Delhi.
- (ii) Eligibility bid to be opened **online** in presence of tenderers who may be present at 4:30 PM on **03.08.2026** in the office of Executive Engineer(E), DED-201, CPWD, B.K.S. Marg, New Delhi.

TENDER

I/We have read and examined the notice inviting tender, schedule, part A, B, C & D, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, of 2023 (maintenance work) as amended/modified up to the previous day to last date of submission of Bid, 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 of 2023 (maintenance work) as amended/modified up to the previous day to last date of submission of Bid, 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 date of opening of bid and not to make any modification in its terms and conditions.

A copy of proforma for earnest money deposit declaration form shall be scanned and uploaded with bid. After opening of bids, agency withdraw/modify the bid during the period of validity of tender, specified in the tender document and / or after award of the work, agency failed to sign the contract over to submit performance guarantee before the deadline defined in the tender documents, the agency shall be suspended for one year and shall not be eligible to bid for CPWD tenders from date of issue of suspension order.

To be filled by EE **

A sum of Rs. **50,123/-** only is hereby forwarded in receipt Insurance surety bond, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee issued by a Commercial Bank against EMD / e-transfer through bharatkosh.gov.in by selecting urban development & poverty alleviation, under EMD head by further selecting PAO:- 043144, PAO (NDZ), CPWD, MOUD, New Delhi, their after DDO-143174, Executive Engineer (E), PWED-II, CPWD New Delhi. **(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).** If I /We, fail to furnish the prescribed performance guarantee within the 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 earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I /We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid. I/ We shall be debarred for participation in the re- tendering process of the work.

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

Address: **

Postal Address **

Occupation: **

** To be filled in By EE

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

Signature.....*

Dated*

Designation.....*

-*- To be filled by EE.

The Proforma of Schedule for each Electrical component. The schedules of quantities of different components are as pages mentioned below:-

PROFORMA OF SCHEDULES		
SCHEDULE 'A' Schedule of quantities, enclosed on separate sheets for:-		
Elect. Work Page 31-44		
SCHEDULE 'D' Extra schedule for specific requirements/document for the work, if any		
-----are attached-----		
SCHEDULE 'E'		
Reference to General Conditions of contract	General Conditions of Contract for CPWD works - 2023 (maintenance work) as amended/modified up to the previous day to last date of submission of tender.	
Name of work :	Upgradation of Electrical work in HMP Flats at South Avenue under Sub Div-I, DED-201 in accordance with Civil work. (SH: Partial/ full upgradation work in Flat No. 112, 113, 126, & 151 and other Flats at South Avenue).	
Estimated cost of work:	Rs. 25,06,167/-	
TOTAL		
(i) Earnest Money :	Rs. 50,123/-	
(ii) (a) Performance Guarantee	5% of the estimated cost put to tender (ECPT) or contract amount whichever is higher.	
(ii) (b) Additional Performance Guarantee	The additional performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount.	
(iii) Security Deposit	2.5% of Tendered Value	
SCHEDULE 'F': GENERAL RULES & DIRECTIONS:		
Officer Inviting Tender:	Executive Engineer(E), DED-201, CPWD, B.K.S. Marg, New Delhi	
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with clauses 12.2 & 12.3.	As per clause 12 mentioned below	
2 (v) Definitions:		
	Engineer-in-charge	Executive Engineer(E), DED-201, CPWD, B.K.S. Marg, New Delhi
2(viii)	Accepting Authority	Executive Engineer(E), DED-201, CPWD, B.K.S. Marg, New Delhi
2 (x)	Percentage on cost of material and labour to cover all overheads and profits.	15 %

2 (xi)	Standard Schedule of Rates	DSR 2025 (E&M) and amended upto date and Market rate.	
2 (xii)	Department	Central Public Works Department.	
9(ii)	Standard CPWD contract form:	GCC 2023 (maintenance work), CPWD Form 7 as amended/ modified up to the previous day to last date of submission of e-tenders.	
Clause 1: -			
(i)Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance, in days		03 days	
(ii) Maximum allowable extension with late fee @0.1% of Performance Guarantee amount per day beyond the period provided in (i) above.		02 days	
Clause 2:			
Authority for fixing compensation under clause 2 of bid.		Chief Engineer, NDZ-2, CPWD, New Delhi	
Clause 2A:			
Whether Clause 2A shall be applicable		NA	
Clause 5:			
Number of days from the date of issue of letter of acceptance for reckoning date of start		05 days	
Milestone(s) as per table given below:			
Sl. No.	Description of milestone (s) (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of non-achievement of Milestone (s)
N.A.			
TIME ALLOWED FOR EXECUTION OF WORK— 03 Months			
Authority to decide:			
(i) Extension of time			Chief Engineer (NDZ-II)
(ii) Rescheduling of milestones			Chief Engineer (NDZ-II)
(iii) Shifting of date of start in case of delay in handing over of site			Chief Engineer (NDZ-II)
Clause 5: Applicable clause 5/ Clause 5A			Clause 5

Clause 6		
Clause applicable – (6)		Electronic Measurement Book (EMB) through CPWD ERP portal (JE shall record the measurement on ERP portal and contractor may submit the bill on the basis of same)
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		Not Applicable
Clause 7A: Whether Clause 7A shall be applicable.		No
Clause 7B: Payment to Third Party		Yes
Clause 10 A: List of testing equipment to be provided by the Contractor at site lab.		Equipments required for field test as per Specification for the item under execution as per agreement.
Clause: 10B(ii)		
Whether clause 10B (ii) shall be applicable		No
Clause 10 C		Not Applicable
Component of labour expressed as percentage of value of work		25%
Clause 10 CA		Not Applicable
Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column.		Not Applicable
Clause 11: <u>Specifications to be followed for Electrical works</u>		CPWD General Specifications for Electrical Works: Part-I Internal -2023, Part-II External – 2023, 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, HVAC -2024 as amended upto date & as per Terms & conditions attached.
Clause 12:		
	Type of work	E & M work
12.2 & 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work	No limit
12.5:	(i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation Work (except earth work)	No limit
	(ii) Deviation Limit for items in earth work subhead of DSR or related items	No limit
Type of work		E & M work

Clause 16:		
Competent Authority for deciding reduced rates		Chief Engineer, NDZ-2, CPWD, New Delhi
Clause 18 List of Mandatory Machinery, tools and plants to be deployed by the Contractor at site.		
As per requirement of work at site.		
Clause 19 C	Competent Authority to decide penalty for each default	As per GCC 2023 Provisions
Clause 19 D	Competent Authority to decide penalty for each default	As per GCC 2023 Provisions
Clause 19 G	Competent Authority to decide penalty for each default	As per GCC 2023 Provisions
Clause 19 K	Competent Authority to decide penalty for each default	As per GCC 2023 Provisions
Clause 19L	Competent Constitution of Dispute Redressal Committee: --	As per GCC 2023 Provisions

Clause 25

Constitution of Dispute Redressal Committee (DRC)	Conciliator	ADG (RD), CPWD, New Delhi
	Arbitrator Appointing authority	Chief Engineer, NDZ-II, CPWD, New Delhi
	Place of Arbitration	New Delhi

Clause-32: Requirement of Technical Representative (s) & recovery Rate:

Sl. No	Minimum Qualification of Technical representative	Designation	Minimum Experience (years)	Number (of Major+ Minor component)	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32
1	Graduate Engineer (Elect.) Or Diploma Engineer	Project Planning / Quality / Billing Engineer	2 Year (for Graduate) or 5 years respectively (for Diploma)	1 (One) No.	Rs.15,000 (Fifteen Thousand)- Per Month

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

Clause-38	
(i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen	Nil
(ii) Variations permissible on theoretical quantities	
a) Cement for works with estimated cost put to tender more than Rs. 5 lakhs.	
b) Bitumen for all work	
c) Steel reinforcement and structural steel sections for each diameter, section and category	Nil
d) All other materials.	

केन्द्रीय लोक निर्माण विभाग

कार्यालय झापन

No. DG/MANUAL-2024/11

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi

Dated: 10.02.2025

Sub: Modifications in para 5.18 of CPWD Works Manual 2024- regarding Payment of bills.

Following modifications is made in para 5.18 for CPWD Works Manual 2024:

Existing Provision	Modified Provision
5.18 Payment	5.18 Payment
5.18.1 Time Schedule for Payment of Bills	5.18.1 Time Schedule for Payment of Bills
Ad-hoc payment the bill.	No change
The bill shall be concerned Executive Engineer.	No change
The remaining payment working days.	No change
The final bill shall be paid within the time schedule as per GCC provisions.	The final bill shall be paid only after compliance of pre-requisite documents such as sanctioned copies of extra items and deviation in quantities, escalation statements, recovery statement, theoretical statement, final completion certificate, sanctioned final extension of time case, mandatory tests statement, dismantled materials account and other documents as mentioned in clause 7A etc. as per GCC provisions.

This is issued with the approval of DG CPWD.

(दिनेश कुमार उज्जैनिया)
अधीक्षण अभियंता (सी.एंड.एम.)

Issued from file No. CSQ/CM/16(1)/2024

e-file 9190123 (DFA/9315619)

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनवि वेबसाईट के माध्यम से)

R K SINGH
EE(MANUAL)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/Manual-2024/20

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi

Dated: 27.02.2026

Sub: Modification in Para 5.2 for CPWD Works Manual 2024.

Following modification is made in Para no. 5.2 for CPWD Works Manual 2024:

Existing Provision	Modified Provision
5.2 Performance Guarantee	5.2 Performance Guarantee
Sl. No. 1	No Change
2. PG shall be 5% of the contract amount or as prescribed from time to time to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of sixty days beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.	2. PG shall be 5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher , or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of six months beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.
Sl. No. 3	No Change
4. No provision	4. A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.

	0.8A – 0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.
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This is issues with the approval of DG CPWD.


 27.02.2026
 ((चन्द्र पाल))
 अधीक्षण अभियंता (सी.एंड.एम.)
 Chandar Pal, SE (C&M)

Issued from file No. CSQ/CM/16(1)/2026 e-file 9212995 (DFA/ 9365789)

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनवि वेबसाईट के माध्यम से)


 27/2/26

D.P. Jindal
EE (Contract)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/SOP- 2024/23

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi

Dated: 25.03.2026

Sub: Modification in SOP No. 5/20 for CPWD Works Manual 2024.

Following modification is made in SoP No. 5/20 for CPWD Works Manual 2024:

Existing Provision	Modified Provision
SOP No. 5/20: (B) ERP Electronic Measurement Book (e-MB) (Refer para 5.12.1(B))	SOP No. 5/20: (B) ERP Electronic Measurement Book (e-MB) (Refer para 5.12.1(B))
8. No provision	8. Recording of measurements of annual repairs and maintenance works, special repair works, comprehensive maintenance and upgradation works of agreement amount upto Rs. 10 crores. In respect of annual repair and maintenance works, special repair works, comprehensive maintenance works and the upgradation works to be executed in Delhi, JE/AE (where JE are not available) shall measure the items of work jointly with the contractor and record the measurements and get the dated signature of the contractor on the record measurements of the works within 7 days and also give a copy of the same to the contractor, in case of CMB. However, in case of EMB, intimation on ERP portal may be given to the contractor for cross checking of measurements. The contractor may thereafter submit the bill on the basis of same. Accordingly, provision is to be made in schedule 'F' of the NIT, as the necessary amendment in the GCC has been made vide OM No. DG/CON/Maintenance 2023/19 dated 25.03.2026.

This issues with the approval of DG CPWD.

अधीक्षण अभियंता (सी. एम्. ई. एम्. एल.)
(चन्द्र पाल)
Chander Pal, SE (C&M)

Issued from file No. CSQ/CM/16(1)/2025 e-file 9195855(DFA/ 9356089)

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनवि वेबसाईट के माध्यम से)

K.G. Bansal
EE (Manual)

Terms & Conditions (EI Work)

- 1) The work shall be carried out as per CPWD specification for electrical works Part-I (Internal) 2023 Part II External - 2023, amended up to date, and as per additional specifications and conditions for this work.
- 2) The department reserves the right to send such materials to the manufacturers / authorized test laboratory to verify the genuineness and quality of the product.
- 3) All material shall be got approved by the Engineer –In-Charge before supply / installation of material.
- 4) The contractor is advised to visit the site before quoting for this tender to apprise himself about the site environments and other conditions. Drawings and inventories can be seen in the office of undersigned.
- 5) The work shall be progressed in tune with the of civil work. As such, the contractor doing electrical works shall work in close coordination with casting of the slabs, erection of the walls etc. as required. No claim of the contractor shall be entertained by the Department for the idle labour.
- 6) The conduit shall be laid in the RCC slab before their concreting and in walls before plastering. The actual run of conduit and size of the boxes are to be marked on the chases in walls shall be done by chase cutting machines, for which contractor shall arrange adequate numbers of chase cutting machines (Chase Cutters) for cutting chases in walls etc. for laying of conduits.
- 7) All chases holes recesses etc. shall be done to the original finish by the contractor as per required without any additional cost.
- 8) GI switch box shall be used of same make of switch/socket accessories.
- 9) Electronics fan regulator shall be used of two modules having stepped regulation & also be provided of same make of switch/ socket accessories.
- 10) Earthing shall be done in the presence of the Engineer-in-charge or his authorized representatives. A copy of earth testing report shall be attached with bill.
- 11) Earth points with studs are to be provided on each of the switchboards / DBs.
- 12) All hardware, fastening material viz. nuts, bolts, washers and screws etc. to be used on work shall be of Zinc / cadmium plated iron.
- 13) The contractor shall have to furnish the insulation test report, earth report, along with all required details of electrical load on the prescribed Performa for the electric connection from Supply Company.
- 14) The contractor shall be responsible for any damage done to the building or electrical installations during the execution of the work. Damage, if any shall have to be made good by the contractor at his own cost failing which the same shall be got rectified & made good at the risk and cost of the contractor.
- 15) The work shall be carried out in engineering like manner and bad workmanship shall be rejected summarily. For redoing the job, no claim of the contractor shall be entertained on this account.
- 16) The site shall be cleared of malba, debris caused by working at site by the Elect. Contractor without any extra cost to the department.
- 17) The contractor or his authorized representative shall sign the site order book and comply with the remarks entered therein by the representative of the Department.
- 18) Wherever make of materials is not mentioned the contractor shall approved the make before execution of work.

- 19) The contractor will ensure that all the skilled persons managed / deployed for executing the electrical work possess the wireman license issued by approved authorities. Consequences arising due to the default of the contractor to comply with this condition would be contractor's responsibility only.
- 20) The contractor will make his own arrangement for storage of his own material, and if issued to him departmentally. The material, if issued, shall be issued to him from JE (E)'s store. The watch and ward of the materials and of the installations would be responsibility of contractor till the work is completed / handed over to the department. Nothing extra shall be paid to the contractor on this account. The contractor shall make his own arrangement for carriage of materials, fittings, cables etc. issued to him departmentally from the site store to the site of work at his own cost. Nothing extra shall be paid on this account.
- 21) All the DB's switchgears shall have identification marking on them written in white paint. Nothing extra shall be paid on this account. Earth points with studs are to be provided on each of the switchboards /DBs.
- 22) The MCBDB and MCB shall be same make of as approved and left out MCB outlets of the sheet steel enclosures (not occupied by the MCBs) shall be covered with blanking plates.
- 23) The drawing showing layout of the main board, allied equipment shall be got approved by the contractor from the Engineer-in-Charge before fabrication and execution.
- 24) All hardware, fastening material viz, nuts, bolts, washers and screws etc. to be used on work shall be of Zinc / cadmium plated.
- 25) All the material should be ISI marked wherever not specified, if ISI marked material is not available it should be conforming to BIS specification amended up to date.
- 26) The contractor shall have to furnish the insulation test report, earth report, along with all required details of electrical load on the prescribed Performa for the electric connection from Supply Company.
- 27) The contractor will have to arrange for insulation and other tests as per rules in the presence of All concealed works and earthing shall have to be done in the presence of Engineer-in- Charge or his authorized representative.
- 28) The contractor shall be responsible for the safe custody of the electrical installation in the building, including fitting and fixtures till the installations handed over to the department. He should make his own arrangement for proper watch and ward at his risk and cost. No claim will be entertained on this account.
- 29) The work is to be carried out in workman liked manner and generally in accordance with the plans. However, the contractor will be bound to carry out the work with minor deviation over the plan supplied if desired by the Engineer-in-charge of the work.
- 30) The chases in walls shall be done by chase cutting machines, for which contractor shall arrange adequate numbers of chase cutting machines (Chase Cutters) for cutting chases in walls etc. for laying of conduits.
- 31) The field units may also purse with contractors of the existing contract to make payment to the labour by contractor through Bank or ECS or online transfer also. As per Office Order No. DG/SE(E)TAS/ miscellaneous /12 Dated 03.09.2019.
- 32) FEEDER PILLAR/PANEL: Feeder Pillar/Panel and components shall be fabricated and installed as per CPWD General Specifications for Electrical Works Part-I Internal 2023 and conforming to the requirements of the latest revision including amendments of the IS codes and standards.

The feeder pillar shall be divided into distinct vertical sections each comprising of:

Addition: NIL Overwriting: NIL Correction: NIL Deletion: NIL

The fabrication will be done out of 2 mm thick CRCA sheet with double door and inbuilt locking arrangement.

All connections (incoming and outgoing) will be taken out in cable alley with suitable rated solid copper conductor.

The depth of panel shall be as per requirement.

- 33) Cables of 1.1 KV grade XLPE insulated PVC sheathed armored Aluminum / Copper cable shall be 3 1/2 /4 core of sizes as specified. The cable shall conform to IS 1554 Part I.
All control wires shall be 650 V grade copper conductor Halogen free fire retardant or FRLS PVC insulated, conforming to IS 1554-Part I. The minimum size of the control wires shall be 1.5 sq. mm.
- 34) Cable shall be laid in ground, trenches, cable trays and on walls as specified. Installation shall include all supports and clamps as required. The complete work shall be in accordance to CPWD General Specifications for Electrical Works - Part II (External) 2023 amended upto date. As far as possible cables shall not be fixed on walls directly but laid on cable trays. Jointing work shall be carried out only by licensed experienced cable jointer and shall be in accordance to CPWD General Specifications for Electrical Works - Part II (External) 2023 amended up to date.
- 35) **Use of white switches is not permitted. The colour and model of switches and sockets shall be approved by the Engineer-in-charge before procurement and installation.**

Assistant Engineer(E) P
DED-201, CPWD
B.K.S. Marg, New Delhi

Executive Engineer(E)
DED-201, CPWD,
B.K.S. Marg, New Delhi

LIST OF APPROVED MAKES

S. No.	ITEM	ACCEPTABLE MAKE
1	FRLS PVC Insulated Copper conductor Cable / XLPE Power Aluminum Armored cable /CAT 6	RR Kabel / Havells / Bencab
2	PVC Conduit	NIC / BEC / AKG
3	Modular type Switches, Sockets Fan Regulator, Plugs, RJ-45 & RJ-11 Telephone Jack (ISI marked)/ Fan Regulators.	Legrand (Arteor) / Schneider (Opale) / Anchor (Woods) / Crabtree (Varuna) / ABB (Ivie)
4	Bell/ buzzer	ANCHOR/ HAVELLS / MK
5	MCB/MCCB/DBs/ Isolator/AFDD	LEGRAND / HAGER / SIEMENS / SCHNEIDER / ABB/ HAVELLS
6	Cable tray Perforated	Venus / Slotco / Pilco / Rico/Erico / MK/ Steel ways
7	Control Cables	Finolex / National/Havells/Delton
8	BLDC Fan	Havells / Orient / Atomberg / Usha
9	Copper Tubes/Pipe	Met-Tube / Hindustan / Rajco /Total line / Mandev Tubes / Jindal refrigeration.
10	Nitrile Rubber	Insulflex / Armaflex / Eurobatex / Aflex / Superlon
11	CPVC Pipe	Polypack / Prakash/Surya / Astral / Finolex

All the materials shall be used confirm to relevant Indian Standard Specification and wherever available material with ISI Certification Mark shall be used.

Note: - The decision of Engineer-in-charge regarding the model of make shall be final and binding based on the prevailing model at the time of execution.

Assistant Engineer(E) P
DED-201, CPWD
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Executive Engineer(E)
DED-201, CPWD,
B.K.S. Marg, New Delhi

Schedule of Work

Name of Work: - Upgradation of Electrical work in HMP Flats at South Avenue under Sub Div-I, DED-201 in accordance with Civil work. (SH: Partial/ full upgradation work in Flat No. 112, 113, 126, & 151 and other Flats at South Avenue).

S. No.	Description of Items	Qty.	Rate (Rs.)	Unit	Amount (Rs.)	DSR-25 code
1	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.					1.15E
1.1	Group 'A'	30	687.00	Point	20610.00	1.15.1E
1.2	Group 'B'	30	752.00	Point	22560.00	1.15.2E
2	Rewiring for twin control light point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.	18	1064.00	Point	19152.00	1.16E
3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.					1.10E
3.1	Group 'A'	30	1189.00	Point	35670.00	1.10.1E
3.2	Group 'B'	120	1362.00	Point	163440.00	1.10.2E
4	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required					1.17E
4.1	3 x 1.5 sq. mm	240	104.00	Mtr.	24960.00	1.17.3E
4.2	3 x 4 sq. mm	270	222.00	Mtr.	59940.00	1.17.21E
4.3	3 x 6 sq. mm	120	326.00	Mtr.	39120.00	1.17.30E
5	Supplying and fixing of following sizes of PVC conduit along with accessories in surface/recessed i/c cutting the wall and making good the same in case of recessed conduit as reqd.					1.21E
5.1	20 mm	180	151.00	Mtr.	27180.00	1.21.1E
5.2	25 mm	180	168.00	Mtr.	30240.00	1.21.2E

Addition: NIL Overwriting: NIL Correction: NIL Deletion: NIL

6	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.					1.27E
6.1	1 or 2 Module (75mmX75mm)	30	354.00	Each	10620.00	1.27.1E
6.2	3 Module (100mmX75mm)	30	384.00	Each	11520.00	1.27.2E
6.3	4 Module (125mmX75mm)	15	401.00	Each	6015.00	1.27.3E
6.4	6 Module (200mmX75mm)	45	462.00	Each	20790.00	1.27.4E
6.5	8 Module (125mmX125mm)	15	517.00	Each	7755.00	1.27.5E
6.6	12 Module (200mmX150mm)	15	614.00	Each	9210.00	1.27.6E
7	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					1.24E
7.1	5/6 amps switch	120	121.00	Each	14520.00	1.24.1E
7.2	2 way 5/6 amps switch	18	168.00	Each	3024.00	1.24.2E
7.3	15/16 amp switch	120	176.00	Each	21120.00	1.24.3E
7.4	3 pin 5/6 amp socket outlet	60	136.00	Each	8160.00	1.24.4E
7.5	6 pin 15/16 amp socket outlet	120	219.00	Each	26280.00	1.24.5E
7.6	Telephone socket outlet	15	168.00	Each	2520.00	1.24.6E
7.7	TV antenna socket outlet	15	168.00	Each	2520.00	1.24.7E
7.8	Bell push	6	159.00	Each	954.00	1.24.8E
7.9	Blanking Plate	30	47.00	Each	1410.00	1.26E
8	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.	6	112.00	Each	672.00	1.38E
9	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required	30	402.00	Each	12060.00	1.25E
10	Supplying and drawing following pair 0.5 mm dia FRLS/HFFR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.					1.18E
10.1	1 Pair	60	33.00	Mtr.	1980.00	1.18.1E
11	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required	150	54.00	Mtr.	8100.00	1.19E
12	Supplying, drawing, Installation, Testing and commissioning of CAT6 UTP LSZH 23AWG Twisted Pair Cable in existing					39.17E

	conduit/ on surface, Category 6 Unshielded Twisted Pair, 4 pair should be complied as per UL/ETL verification program for compliance with ANSI/TIA-568.2-D standard. Outer diameter should be in the range of 6.1mm nominal with Operating Temperature Range : -5° to +60°C, Bending Radius: < 4 X Cable Diameter at -5°C ± 1°C and Pulling Force : 11.5Kg etc. complete as required.					
12.1	1 Run of cable	300	60.00	Mtrs	18000.00	39.17.1E
13	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distributionboard, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					2.4E
13.1	8 Way (4 + 24), Double Door	3	6337.00	Each	19011.00	2.4.3E
14	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					2.3E
14.1	12 Way, Double Door	6	2871.00	Each	17226.00	2.3.3E
15	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.					2.10E
15.1	Single Pole	132	285.00	Each	37620.00	2.10.1E
16	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					2.13E
16.1	100 A	3	1317.00	Each	3951.00	2.13.3E
17	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					2.12E
17.1	63 A	6	569.00	Each	3414.00	2.12.2E

18	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, lcs=100% lcu and Operational Voltage 690V etc. as required.					2.2E
18.1	125 Amp, 16 KA, TPMCCB	3	5103.00	Each	15309.00	2.2.2E
19	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required					10.7E
19.1	up to 35sqmm (Clamped with 1mm thick saddle)	120	64.00	Mtr.	7680.00	10.7.1E
20	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering					10.3E
20.1	up to 35sqmm	240	253.00	Mtrs.	60720.00	10.3.1E
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge. Concealed work, including cutting chases and making good the walls etc.					
21.1	25 mm nominal dia pipes	90	649.00	Mtrs.	58410.00	DSR Civil 18.8
22	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -5 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI					8.9E

	Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast / Extruded aluminium Body (Thickness ≥ 1.20 mm) (Make: Havells/ Wipro/ Philips/Regent/Jaquar)					
22.1	40 watt	90	721.00	Each	64890.00	8.9.4E
23	Supplying, installation, Testing & Commissioning of LED Recessed / surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F. ≥ 0.95 , IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated					8.1E

	copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 and < 120 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body including trim (Make: Havells/ Wipro/ Philips/Regent/Jaquar)					
23.1	12 -15 watt	90	715.00	Each	64350.00	8.1.3E
24	Supplying, installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) COB Type of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $> 85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI > 80 , UGR (Unified Glare Rating) < 19 , Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) < 3 , Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 and < 120 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C)					8.4E

	LED Down lighter (COB Type) (System lumen efficacy $\geq 105 < 120$ lm/Watt) Powder coated die cast /Extruded aluminum Body including trim with Aluminum Reflector (Make: Havells/Wipro/ Philips/Regent/Jaquar)					
24.1	18 watt	30	1181.00	Each	35430.00	8.4.4E
25	Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency $>85\%$, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -5 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $>85\%$, THD $< 10\%$ as per IEC 61000-3-2 , P. F. ≥ 0.95 , IP-66,IK-10, CRI >70 , under voltage and over voltage protection, EMI-EMC as per CISPR -15, lenses for beam angle 30 deg-120deg as per the application and the project requirementdeg., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $105 < 120$ lm/Watt output .LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). (Make: Havells/ Wipro/ Philips/Regent/Jaquar)					8.15E
25.1	50 watt	12	1436.00	Each	17232.00	8.15.1E
26	Supplying, installation, Testing & Commissioning of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the					8.12E

	requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -5 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI >70, under voltage and over voltage protection, EMI-EMC As per CISPR -15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitary) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM21-11 report, CCT 3000°K/4000°K/5700°/6500°K(As per ANS Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 <120 lm/Watt output .LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). (Make: Havells/ Wipro/ Philips/Regent/Jaquar)					
26.1	50 watt	6	1782.00	Each	10692.00	8.12.12E
	Total A of DSR Items				1046037.00	
27	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft drawn copper refrigerant piping for Climatizer Units, complete with fittings, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/ with Class- closed cell elastomeric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc. as required.					

27.1	6.4 mm dia (OD) (Softdrawn) with tube thickness 0.80 mm with 13 mm thick insulation	60	169.00	Mtrs.	10140.00	MR
27.2	12.5 mm dia (OD) (Soft drawn) with tube thickness 0.80 mm with 13 mm thick insulation	60	321.00	Mtrs.	19260.00	MR
28	Supplying, Fixing, Testing and commissioning of control wiring of 4 core PVC insulated & PVC sheathed copper conductor round cable of 1.1 KV grade ISI marked suitable for Air Conditioning units i/c thimbling, fixing, connections etc. complete as reqd.	90	196.00	Mtrs.	17640.00	MR
29	Supply of following size PVC insulated and PVC sheathed/XLPE armoured aluminium power cable of 1.1 KV grade confirming to ISI : 7098(Part -1) 1988 etc. as required.					
29.1	3 X 10 sq. mm	330	202.00	Mtrs.	66660.00	MR
29.2	3.5x35 sq.mm	30	409.00	Mtrs.	12270.00	MR
30	Supplying and fixing MCCB Sheet steel enclosure on surface/recess suitable for TP/FP MCCB complete with connections, testing and commissioning etc. as required. (Make : Havells Cat No. IHEFFP/ Legrand / Hager / Siemens).	3	2244.00	Each	6732.00	MR
31	Supplying and fixing 20 / 25 / 32 A DP 'C' MINI MCB suitable for inductive load in the existing Switch board complete with connections, testing and commissioning etc. as required.	24	675.00	Each	16200.00	MR
32	Supplying and fixing of decorative 15 W LED mirror light fitting made of metallic finish, CRCA sheet housing, powder coated, acrylic diffuser i/c P/F 3 mm thick phenolic laminated sheet to cover the back side of the fitting complete with connection etc. as reqd. (Make: Lustre LI-34018-15 or equivalent in Hi-lite / Twinkle Lite/ Twinkle Lux Max).	12	3232.00	Each	38784.00	MR
33	S.I.T.C. of Bed side Twin type Fancy light fitting with 7/9 Watt LED lamp for shade and 3 Watt LED lamp for reading, body made up of Mild Steel suitable for single phase 240V 50Hz AC supply i/c connection etc. as reqd. (Make: A.S. Lites: 37104-1 /Astral or equivalent make in Twinkle lite / Luster/Twinkle LuxMax / Hi-lite)	18	3332.00	Each	59976.00	MR
34	Supplying, installation, testing & commissioning of decorative wall light (Single Arm/ Double Arm) fitting made up of metal/glass/acrylic body with inbuilt LED ,casting having Chrome / Antique / Gold finish and decorative opal / frosted / crystal glass diffuser complete etc. as required. (as per sample approved)	30	2402.00	Each	72060.00	MR

35	Supply and installation of minimum 1200 mm decorative ceiling fan copper wound including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required. (Make - Orient : Jazz Trendz/ Havells Nicola ES / Crompton : Gianna Tapioca/ USHA : Onio Pi)	24	4039.00	Each	96936.00	MR
36	Supply, installation, testing and commissioning of 1200 mm ceiling fan, ISI Marked, copper winding including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required. (Make: Crompton/Usha/Orient/Havells)	6	2006.00	Each	12036.00	MR
37	Providing and fixing of 300 mm sweep 1200 rpm metal body exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. (Make : USHA AEROCLEAN/Havells VENTILAIR DSP / Khaitan / CG / Orient)	3	1914.00	Each	5742.00	MR
38	Providing and fixing of 200 / 250mm sweep PVC body fresh air fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. (Make : Usha /Havells /Khaitan /CG /Orient)	15	1849.00	Each	27735.00	MR
39	Supply and installation of kitchen chimney of nominal width 600 mm, minimum air flow 1400 m ³ /Hr., Brush less DC motor, complete with all accessories etc. as required. .(Make : Glen / Kaff / Hafele / Faber/ Elica / Hindware)	3	25396.00	Each	76188.00	MR
40	Supply & fixing of aluminium flexible pipe of 150 mm dia along with accessories i/c connection and providing fixing back cover on the outlet end etc. as required. (Make: Prakash /Jindal /Tata/ Supreme/ Finolex)	9	419.00	Mtr.	3771.00	MR
41	S/I/T/C of wall or base mounted type water purification system with wall mounting stand as per specification given below - Type of purification : (RO+UV+TDS) ., Material of body : ABS or Foodgrade Plastic/Polycarbonate, Storage capacity : 7 to 10 Ltr., Flow rate at input TDS level of 750 ppm at room temperature : 10 to 15 Ltr./hour,Input supply : 230 V AC, 50 Hz,TDS Reduction : 90% (Approx.). (Make : Eureka Forbes model Aquaguard Enhance /KENT Pride / Zero B Power RO).	3	17680.00	Each	53040.00	MR

42	Supplying and fixing of Pre filter Set in the existing R.O. System i/c connection, testing etc. as reqd. (Make : Eureka Forbes/Kent/Zero B)	3	745.00	Each	2235.00	MR
43	Supplying and fixing of Vertical type 35 Ltrs. capacity Geyser having BEE Star rating : Minimum 3 Star having inbuilt ELCB complete with all accessories. Making good the damages and water tight connection etc. as reqd. (Make : Racold /Havells /AO Smith/Jaquar)	9	14323.00	Each	128907.00	MR
44	Supplying and fixing of 3 Ltrs. capacity Vertical mounted Instant Geyser rated power 3 KW storage water heater having BEE Star rating 5 Star complete with all accessories. Making good the damages and water tight connection etc. as reqd. (Make: Recold Altro i+ /AO Smith Urbane/Havells-Monza DX/Racold Signature Instant)	3	5849.00	Each	17547.00	MR
45	Supply and Installation of LED bulk head fittings of pressure die cast aluminium housing and having lumen output not less than 1000 lumen, IP 66 protection, i/c connection, testing etc as reqd. (Make: Bajaj Model No. BIBWP 10W LED / Wipro/ Phillips / Havells)	9	760.00	Each	6840.00	MR
46	Supply and installation of Centrifugal Monoblock Pump Set 1 HP 230 volts, suitable for domestic application having 25mm x 25mm suction & delivery i/c P/fixing making foundation, suitable size union, nipple, elbow, nut & bolts i/c connection, interconnection etc. as reqd. (Make: Crompton Mini Master Plus 1 /Kirloskar Mini 50C / V Guard)	3	11704.00	Each	35112.00	MR
47	S/I/T/C of Centrifugal Pressure Pump of 0.50 HP capacity with pressure switch, discharge range 2000-400 LPH, head range 6- 24 i/c P/fixing suitable size union, nipple, hex bush, elbow & socket etc. i/c connection, interconnection, testing, commissioning etc. as reqd. (Make: Crompton Cat No. MINI Force-II/Kirloskar/V guard/Varuna)	3	11410.00	Each	34230.00	MR
48	Supplying, installation, testing & commissioning of Pure Sine Wave Inverter/UPS of 2 KVA capacity suitable for 230 volt AC output (Make : Su-Kam/ Microtek /Luminous) with 2 Nos. tubular battery of 135 AH (Make : Su-kam/ Microtek /Luminous /Exide) and battery trolley and provision for wiring from DB/switch board to inverter etc. complete as reqd.	3	38336.00	Each	115008.00	MR

49	S.I.T.C. of LED Post-top light of System wattage 35W or more, made up die-cast aluminum, with inbuilt LED driver & light, IP65 or more complete with connection etc. as required, as per sample approved. (Make : Jaquar/Havells /Wipro/Philips /Regent).	6	5628.00	Each	33768.00	MR
50	SITC of LED Bollard light of 840-1000mm Height of System wattage 10 - 11W, made out of aluminium extruded housing with pure polyester powder coated black, aluminium heat sink, IP65 protection, Powered by built-in, isolated potted electronic LED driver in ABS housing, CCT 3000K / 5700K/6500K with average life of 50000 burning hours with L70 criteria & BIS approved i/c the top of foundation should be provided with tile. foundation bolt, complete with all accessories as required i/c making of suitable RCC foundation of 1 : 3 : 6 (1 cement : 3 Coarse : 6 graded stone) aggregate 40mm. (NS). The fitting should be installed on extended foundation bolts having adjustable gap / angle between foundation & fitting with necessary Nuts & Bolts i/c connection, testing, commissioning complete etc. as reqd. (Make: Wipro- Fantasy LB14 / HavellsMount / Philips-BCP150).	20	6871.00	Each	137420.00	MR
51	Supply & fixing of 10-Watt spike light fitting IP 65 colour temperature in range of 3000K with all accessories etc. i/c connection, testing & commissioning complete etc. required. (Make : Philips Model No. 919215851088 or similar in Havells/Wipro/Crompton)	20	1389.00	Each	27780.00	MR
52	Providing services for cutting of wall for installation of copper tube, wire & Drain pipe and repairing of wall with the help of cement, sand and POP etc. completed as reqd.	60	93.00	Mtrs.	5580.00	MR
53	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). (Make: LG / Mitsubishi / Hitachi/ O' General/Daikin)					
53.1	Inverter Type- Hot & Cold 1.8/2.0 TR with 3 Star BEE Rating	6	65170.00	Each	391020.00	MR
	Total B of Non DSR Items				1530617.00	
	Total A + B				2576654.00	
54	Less credit for damaged and dismantled material received from the work:-					
54.1	5/15/16 Amp. Switch/Socket/Bell Push/TV antenna Socket/Telephone Socket/DP Switch/Fan Regulator (Assorted)	300	-0.20	Each	-60.00	MR
54.2	All type of Call Bell (Assorted)	6	-2.00	Each	-12.00	MR
54.3	PVC insulated Copper wire (Assorted)	15	-500.00	Kg.	-7500.00	MR
54.4	Steel Conduit (Assorted)	15	-30.00	Kg.	-450.00	MR
54.5	Bulk head/Tube light fitting/Hanging light/ Downlighter / Panel Light/ etc. (Assorted)	120	-30.00	Each	-3600.00	MR
54.6	Bollard (Assorted)	16	-500.00	Each	-8000.00	MR
54.7	Flood light / Street Light/ Post Top etc. (Assorted)	24	-150.00	Each	-3600.00	MR
54.8	Ceiling Fan (Assorted)	18	-300.00	Each	-5400.00	MR
54.9	SPN DBs (Assorted) with loose wire box	6	-25.00	Each	-150.00	MR
54.10	TPN DBs (Assorted) with loose wire box	3	-50.00	Each	-150.00	MR
54.11	MCCBs/RCCBs (Assorted)	3	-25.00	Each	-75.00	MR
54.12	MCBs, Isolators (Assorted)	90	-5.00	Each	-450.00	MR

54.13	Fresh Air Fan/Exhaust Fan (Assorted)	15	-125.00	Each	-1875.00	MR
54.14	Pressure Pump (Assorted)	3	-750.00	Each	-2250.00	MR
54.15	Mono Block Pump Set (Assorted)	3	-750.00	Each	-2250.00	MR
54.16	Assorted size Modular base plate and cover plate	45	-2.00	Each	-90.00	MR
54.17	Assorted size electrical GI box	45	-5.00	Each	-225.00	MR
54.18	Geyser (Assorted)	9	-500.00	Each	-4500.00	MR
54.19	Inverter (Assorted)	3	-500.00	Each	-1500.00	MR
54.20	Inverter Battery (150AH Assorted)	6	-4500.00	Each	-27000.00	MR
54.21	Electrical Chimney (Assorted)	3	-250.00	Each	-750.00	MR
54.22	R.O. (Assorted)	3	-200.00	Each	-600.00	MR
Total C of Dismantle Items Rs.					-70487.00	
G. Total A+B+C Rs.					2506167.00	

Note: In case of overall percentage rates quoted by Agency is below the schedule of rates, such below percentage shall not apply on item No. 54.1 to 54.22. However, in case quoted overall percentage is above the schedule of rates, such percentage shall also be applied on these items.

**Executive Engineer(E)
DED-201, CPWD
B.K.S. Marg, New Delhi.**