

INDEX**NIT NO:** 135/2026-27/DED-201/1**Name of Work:** MOEI & Fans RMO Booster P/Sets, RO, SWHS, AC Appliances, refrigerators, DC & WC etc. in the R/o HMP's Bungalows under F/Shah Road Sub Div-1, DED-201. (SH: SITC of CCTV System at B-2. Dr. Zakir Hussain Marg).**Estimated cost:** Rs. 4,46,858/-**Earnest Money:** Rs. 8,937/-**Time allowed:** 1 Month

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*NIT Amounting to Rs. **4,46,858/-** (Rupees Four Lakhs Forty Six Thousand Eight Hundred Fifty Eight Only) contains Page 1 to 38 is hereby approved.*

Assistant Engineer (E)
Sub Division-1, DED-201, CPWD
Ferozshah Road, New Delhi

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

The Assistant Engineer (E), Sub Division-1, DED-201 CPWD, Ferozshah Road, New Delhi-110001 on behalf of President of India invites online percentage rate tender on two bid system From **specialized firms** 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	135/2026-27/DED-201/1	MOEI & Fans RMO Booster P/Sets, RO, SWHS, AC Appliances, refrigerators, DC & WC etc. in the R/o HMP's Bungalows under F/Shah Road Sub Div-1, DED-201. (SH: SITC of CCTV System at B-2. Dr. Zakir Hussain Marg).	Rs. 4,46,858/-	Rs. 8,937/-	1 Month	23-07-2026 up to 3:00 PM	23-07-2026 up to 3:30 PM

**** To be filled by AE.**

Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted. [1(b), 1(c) & 1(d) are not applicable for CPWD enlisted contractors of appropriate class. 1(a) and 1(e) are applicable for CPWD enlisted contractors also].

- a) Should have satisfactorily completed the works as mentioned below during the last Seven years ending last day of the month previous to the one in which tenders are invited.

Three similar works each costing not less than Rs. 1.79 Lacs

Or

two similar works each costing not less than Rs. 2.68 Lacs

Or

One similar work costing not less than Rs. 3.57 Lacs

Similar work shall mean SITC of CCTV System.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of bids.

- b) Should have had Average Annual Financial Turnover of works during the last three years ending 31st March 2024. (Scanned copy of Certificate from CA with Unique Document Identification Number (UDIN) to be uploaded).

- c) Should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 31st March 2024
- d) Should have Net Worth certificate from CA with Unique Document Identification Number (UDIN). (Scanned copy of original to be uploaded).
- e) Should have bidding capacity equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = \{[A \times N \times 1.5] - B\}$$

Where,

A = Maximum turnover in construction works executed in any one year during the last seven years taking into account the completed as well as works in progress. The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum.

N = Number of years prescribed for completion of work for which bids have been invited.

B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. 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.

4. 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, 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 fro 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, Bankers Cheque or Bank Guarantee issued by a Commercial Bank against EMD / e-transfer through bharatkosh.gov.in by selecting urban development and poverty alleviation, under EMD head by further selecting PAO- 043144, PAO (NDZ), CPWD, MOUD, New Delhi. **(Note- 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) 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."

- (iv) GST Return.
- (v) **Certificate Work Experience issued by the authority in the rank of Executive Engineer or equivalent as per clause 1.2.1 of CPWD-6.**
- (vi) Affidavit as per provision of clause 1.2.2 of CPWD-6.
- (vii) Certificate of Financial Turnover from CA.
- (viii) Loss and profit statement issued from CA.
- (ix) Banker's Certificate or Net Worth Certificate.
- (x) The agency should upload Bank Account Details registered with his firm like Bank name, A/c Number, IFSC Code, A/c name on firm letter head/blank paper with valid email ID and Mobile No. or Bank Pass Book having details of Account.
- (xi) Copy of Pan Card.
- (xii) ERP Training Certificate issued by National CPWD Academy (NCA), Ghaziabad / Regional Training institute, CPWD.

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

Assistant Engineer (E)
Sub Division-1, DED-201, CPWD
Ferozshah Road, New Delhi

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: MOEI & Fans RMO Booster P/Sets, RO, SWHS, AC Appliances, refrigerators, DC & WC etc. in the R/o HMP's Bungalows under F/Shah Road Sub Div-1, DED-201. (SH: SITC of CCTV System at B-2. Dr. Zakir Hussain Marg).
2.	NIT No.: 135/2026-27/DED-201/1
3.	Estimated Cost: Rs. 4,46,858/-
4.	Amount of Earnest Money Deposit: Rs. 8,937/-
5.	Last date of submission of bid: 23-07-2026 up to 3:00 PM
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 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 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. **If the EMD is deposited in any Sub Division office other than NIT issuing authority than it shall not be considered and tender shall be rejected.**
7. The tender inviting Executive Engineer will call for original EMD of the L-1 tenderer from EMD receiving Executive Engineer immediately.

Undertaking Form

UNDERTAKING FOR ASSOCIATING VALID ELECTRICAL CONTRACTOR LICENSE HOLDER

1. Name of Work: ~~MOEI & Fans RMO Booster P/Sets, RO, SWHS, AC Appliances, refrigerators, DC & WC etc. in the R/o HMP's Bungalows under F/Shah Road Sub Div 1, DED-201. (SH: SITC of CCTV System at B-2. Dr. Zakir Hussain Marg).~~
2. NIT No.: ~~135/2026-27/DED-201/1~~
3. Estimated Cost. ~~Rs. 4,46,858/-~~
4. Amount of Earnest Money Deposit ~~Rs. 8,937/-~~
5. Last date of submission of bids ~~23-07-2026 up to 3:00 PM~~

~~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 alongwith Performance guarantee and Additional performance guarantee (APG) 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

Online Percentage rate bids are invited on behalf of President of India from **specialized firm** for the work of **“MOEI & Fans RMO Booster P/Sets, RO, SWHS, AC Appliances, refrigerators, DC & WC etc. in the R/o HMP’s Bungalows under F/Shah Road Sub Div-1, DED-201. (SH: SITC of CCTV System at B-2. Dr. Zakir Hussain Marg).”**

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. 4,46,858/-** 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.
- 1.2 Intending tenderer is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-
Contractors who fulfil the following requirements shall be eligible to apply. (Joint ventures are not accepted)

- (a) **Should have satisfactorily completed the works as mentioned below during the last Seven years ending previous day of last date of submission of bids.**

Three similar works each costing not less than Rs. 1.79 Lacs

Or

Two similar works each costing not less than Rs. 2.68 Lacs

Or

One similar work costing not less than Rs. 3.57 Lacs

Similar work shall mean SITC of CCTV System in last 7 years ending last day of the month previous to the one in which the tenders are invited The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of bids.

- (b) Should have had Average Annual Financial Turnover of works during the last three years ending 31st March, 2024. (Scanned copy of Certificate from CA with Unique Document Identification Number (UDIN) to be uploaded).
- (c) Should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 31st March, 2024.
- (d) Should have a Banker's Certificate from a commercial Bank for Rs. 2.35 Lakhs Or Net Worth certificate from CA with Unique Document Identification Number (UDIN) of minimum 10% amount of ECPT (Scanned copy of original to be uploaded).

1.2.2 To become eligible for issue of tender, the tenderer shall have to furnish an affidavit as under:-

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. (Scanned copy to be uploaded at the time of submission of 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 **1 Month** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available and will be handed over in phased manner or in parts.
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. Earnest Money in the form of Treasury Challan or Deposit at Call Receipt or Fixed Deposit Receipt / Account payee Demand Draft / Bank Guarantee / 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 Eligibility bid submitted shall be opened on 23-07-2026 at 3:30 PM.

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:
 - i. The bidders are found ineligible.
 - ii. The bidders does not upload all the documents (including Copy of certificate of Registration for GST) as stipulated in the bid documents.
 - iii. 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).
 - iv. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.
 - v. 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.
12. **The contractor whose bid is accepted will be required to furnish performance guarantee and additional performance guarantee (APG) at specified percentage of the Estimated cost put to tender (ECPT) 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 & additional performance guarantee (APG). 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 Thirty (30) 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 and Additional performance guarantee (APG). 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 and Additional performance guarantee (APG), 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 **1 Month** 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 Sub Divisional officer
For & on behalf of President of India**

**Assistant Engineer (E)-1
DED-201, CPWD, New Delhi**

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE	Delhi	CIRCLE	--
BRANCH	E & M	DIVISION	DED-201
ZONE	NDZ -2	Subdivision	I

Percentage Rate Tender & Contract for Works

Tender for the work of: - MOEI & Fans RMO Booster P/Sets, RO, SWHS, AC Appliances, refrigerators, DC & WC etc. in the R/o HMP's Bungalows under F/Shah Road Sub Div-1, DED-201. (SH: SITC of CCTV System at B-2. Dr. Zakir Hussain Marg).

- (i) To be submitted **online** on **23-07-2026 up to 3:00 PM** to Assistant Engineer (E), SD-1, DED-201, CPWD, Ferozshah Road, New Delhi-110001.
- (ii) Eligibility bid to be opened **online** in presence of tenderers who may be present **23-07-2026 at 3:30 PM** in the office of Assistant Engineer(E), SD-1, DED-201, CPWD, Ferozshah Road, New Delhi-110001.

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 and Additional performance guarantee (APG) 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 AE **

Addition: NIL

Overwriting: NIL

Correction: NIL

Deletion: NIL

A sum of **Rs. 8,937/-** 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. If I /We, fail to furnish the prescribed performance guarantee and Additional performance guarantee (APG) 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 and Additional performance guarantee (APG) 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 and Additional performance guarantee (APG) 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 and Additional performance guarantee (APG).

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 AE**

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 AE.**

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 – 27 to 38	
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 :	MOEI & Fans RMO Booster P/Sets, RO, SWHS, AC Appliances, refrigerators, DC & WC etc. in the R/o HMP's Bungalows under F/Shah Road Sub Div-1, DED-201. (SH: SITC of CCTV System at B-2. Dr. Zakir Hussain Marg).
Estimated cost of work: TOTAL	Rs. 4,46,858/-
(i) Earnest Money:	Rs. 8,937/-
(ii) Performance guarantee and Additional performance guarantee (APG)	5% of the estimated cost put to tender (ECPT) or contract amount whichever is higher. The Additional performance guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (Direction in Performance guarantee and Additional performance guarantee (APG) as per OM no. DG/Manual-2024/20 dated 27-02-2026 issued from file no. CSQ/CM/16(1)/2026 e-file 9212995 (DFA/9365789).
(iii) Security Deposit	2.5% of Tendered Value
SCHEDULE 'F': GENERAL RULES & DIRECTIONS:	
Officer Inviting Tender:	Assistant Engineer(E), SD-1, DED-201, CPWD, Ferozshah Road, 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	Assistant Engineer(E), SD-1, DED-201, CPWD, Ferozshah Road, New Delhi
2(viii)	Accepting Authority	Assistant Engineer(E), SD-1, DED-201, CPWD, Ferozshah Road, 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 and Additional performance guarantee (APG), 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		05 days
(ii) Maximum allowable extension with late fee @0.1% of Performance guarantee and Additional performance guarantee (APG) 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		07 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— 1 Month			

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)	Computerized Measurement Book (CMB) / Electronic Measurement Book (EMB) through CPWD ERP portal
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.	Yes
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	Not Applicable
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
---N.A.---					

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.	

Assistant Engineer (E)
Sub Divn-1, DED-201, CPWD
Ferozshah Road, New Delhi

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.

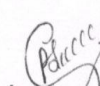
Following modification is made in Para no. 5.2 for CPWD Works Manual 2024:

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.
5. No provision	5. Requirement of Additional Performance Guarantee (APG) : In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be

12/2/26 B. Jindal
(Contract)

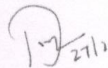
	0.8A – 0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.
--	--

This is issues with the approval of DG CPWD.

 27-02-2026
 (चन्द्र पाल)
 अधीक्षण अभियंता (सी. एण्ड एम.)
 Chandar Pal, SE (C&M)

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

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनिवि वेबसाइट के माध्यम से)

 21/1/16

D.P. Jindal
EE (Contract)

TERMS & CONDITIONS

1. This specification covers manufacture, testing as may be necessary before dispatch, delivery at site, all preparatory work, assembly and installation, final testing commissioning, i/c **one years** guarantee / warrantee period for the work.
2. The tenderer should in his own interest visit the site and get familiarize with the site conditions before tendering.
3. No T&P shall be issued by the Department and nothing extra shall be paid on account of this.
4. The rates quoted by the tenderer, shall be firm and inclusive of all taxes, duties, levies, octroi etc. and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary construction of storage, risks, over head charges, general liabilities/ obligations and other clearance. The escalation in the rates shall not be permitted.
5. All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.
6. Care shall be taken by the contractor while handling and installing the various equipment's and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.
7. The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings, if necessary etc., arrangement of materials & equipment's, delivery at site including transportation, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-Charge.
8. After the installation work has been completed by the contractor, he will conduct tests and adjustments as may be necessary to satisfy him-self that the equipment is capable of continuous running. **There after he will offer to the department a running-in-period of 7 days. The equipment will be operated and a log of all parameters will be maintained during this period. The contractor will be free to carry out necessary adjustment etc. during this period without stopping the equipment.** If any interruption or breakdown happens during running-in period then, 7 days shall be counted in continuity only after restoration of services. Record the design parameters will be made during this period to check the same are as per NIT requirements **This date of taking over of equipment after trouble free operation during the running in period shall be the date of acceptance.**
9. All the equipment's shall be guaranteed for a **period of 12 Months** from the date of handing over the installation against unsatisfactory performance and / or break down due to defective design, error in programming, workmanship of materials etc. the equipment's or components, or any part thereof, so found defective during this guarantee period (Defect Liability Period) shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final.
10. Sufficient trained and experienced personnel shall be made available to meet any exigency of working during the guarantee period of one year from the handing over of the installation.
11. The maintenance, routine as well as preventive, for **01 years** from the date of handing over of the installation (i.e. during the guarantee period) as per manufacturer's recommendations/ standard practice shall be carried out and the record of the same shall have to be maintained. Nothing extra shall be paid on this account.
12. The successful tenderer shall be required to submit the drawing within **05 days of work**

for approval before commencement of installation.

13. The contractor shall submit the relevant certificate at the time of supply of **CCTV Cameras and Surveillance System** etc.
14. The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation such tests and adjustments and commissioning as may be required by department. The term complete Installation shall not only mean major items of the IP CCTV system covered by specifications but all incidental sundry components necessary to complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in detail in the Tender document in connection with this contract.
15. Minor building works necessary for installation of equipment, foundation, making of opening in floors and restoring to their original condition, finish the necessary grouting etc. as required.
16. All the functionality as mentioned in schedule of work shall be got operated satisfactorily as per instruction of Engineer-in-charge.
17. The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected. The submission of invoices, customs duty, transport bill etc concerned with the materials shall be required before making any claim to ascertain the genuineness
18. The free maintenance during **one years of** guarantee / warranty period.
19. In addition of supply, installation, testing and commissioning, as per schedule of work and as per CPWD specifications, the following works shall be deemed to be included within the scope of work to be executed by the contractor, Nothing extra shall be paid.
 - (i) All minor building works for the installation such as cutting, making good the damage or any other damages during execution of works.
 - (ii) Tools and plants for the handling and installation of equipment's.
 - (iii) Protection requirement for the equipment's from shocks pressure, rain, dust storm during transportation and storage of equipment as required.
 - (iv) Necessary equipment for the commissioning & testing etc.
 - (v) The equipment's must be insured during transit from manufacturer's place of work till installation and handing over to the department.
 - (vi) Safe custody of material and installation till they are taken over by the department.
20. Soon after the work is completed, the contractor shall inform in writing to Engineer-In-Charge of the work for getting the complete system i/c all equipment's and controls thoroughly inspected and tested for satisfactorily performance.
21. Any defect noticed during these tests shall be speedily rectified by the contractor within a specified time failing which the same shall be got done at his risk and cost of the contractor.
22. The scope of works includes training of personnel from client Department (if they desire so) at site/ works. The training shall include on both the equipment (hardware) and software, as applicable. Nothing extra shall be payable on this account.

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)
Sub Divn-1, DED-201, CPWD
Ferozshah Road, New Delhi

Acceptable Makes		
Sl. No.	Description	Make
1	Bullet Camera / Dome Camera	CP Plus/ Matrix/ Globus/ Prama/ Indinatus/ i-Pro/Honeywell/Hikvision
2	Network Video Recorded/Hard Disk	CP Plus/ Matrix/ Globus/ Prama/ Indinatus/ i-Pro/Dlink/ Honeywell/Hikvision
3	Network Switch	D-Link/ CISCO/ Allied Telesis/ Netgear/ Juniper
4	CAT 6	Havells/D link/ Finolex/ploycab
5	Equipment Rack	Dynamic rack/ Commrack/ Wallrack/ Netrack
6	Patch cord	Dlink/molex/commscope/Legrand/Schneider
7	PVC Conduit	NIC / BEC / AKG
8	Any other material/ Equipment	As per manufacturer standard specification and to be approved by Engineer-in-Charge.

Assistant Engineer (E)
Sub Divn-1, DED-201, CPWD
Ferozshah Road, New Delhi

Schedule of Work

Name of Work: - MOEI & Fans RMO Booster P/Sets, RO, SWHS, AC Appliances, refrigerators, DC & WC etc. in the R/o HMP's Bungalows under F/Shah Road Sub Div-1, DED-201. (SH: SITC of CCTV System at B-2. Dr. Zakir Hussain Marg).

S. No.	Description of Items	Qty.	Rate (Rs.)	Unit	Amount (Rs.)	DSR-25 code
1	Supplying Installation Testing and Commissioning of 5MP/6 MP IP IR Bullet Camera having following specifications, type of lens and features etc :- 1) Type of Camera: Bullet Camera 2) Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition 3) Signal System: PAL/NTSC 4) Minimum Illumination: 0.006Lux@ F1.4, AGC ON, 0 lux with IR or better 5) Imaging: 1/3s to 1/30000s, Auto Gain Control, White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking. 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both. 7) Signal to Noise Ratio: > 50 dB 8) Lens Type & Focus: as given below. 9) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR Source- Inbuilt IR LED's with effective distance upto 50 Mtrs integrated IR and 30 Mtrs for colour view in night. 10) Video Compression (Minimum): H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 11) Wide Dynamic Range: WDR (120dB or more) 12) Digital Noise Reduction: DNR (2D/3D) On/Off 13) Streaming: Triple streaming, configurable 14) Video Streaming & Frame Rates: Triple streaming, configurable Main stream: 5MP/6MP @25/30 fps, Sub streams: D1@25/30 fps or better					

15) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser					
16) Profile Management: User configuration import, export					
17) Security: User Authentication, Digital Water Marking					
18) Onboard Storage: Camera should support built-in Micro SD/SDHC/SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card.					
19) Recording Management: Format SD, overwrite, storage management, video to NAS device,					
20) Edge Analytics: Tripwire, Intrusion, Motion Detection					
21) Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection					
22) Alarm Support: It should have 1/1 Alarm In/ Out Port					
23) Audio Support: It should have 1x Built-In Mic and 1/1 Audio In/ Out Port for external Mic. and Speaker (As per site requirement) with G.711U/A / G.711Mu/ AAC/ G.726 audio compression					
24) Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast,					
25) System Capability: ONVIF					
26) VMS: Camera shall support open source VMS					
27) Cyber Security: trusted boot, AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade.					
28) Ethernet: 1 RJ 45 10/100 Ethernet port					

	29) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE—to ensure continuous operation in the event of a failure in one power source.	12	12525.00	Each	150300	40.6.1E
	30) Power Requirement: 12VDC/24V DC/PoE (802.3af)/ePoE					
	31) Enclosure: IP67 weather proof, IK10					
	32) Operating Condition: Ambient Temperature:- (-) 05°C to 50°C, humidity 95% (max) (non-condensing)					
	33) IR life: 40000 hours or higher					
	34) Video Bit rate: 32 KBPS - 8 MBPS or better					
	35) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
	5MP/6MP IP IR 2.8/ 3.6/6/8/12 mm fixed lens (as per site requirement) outdoor bullet Camera					
2	Supplying Installation Testing and Commissioning of 5MP/6MP IP IR Dome Camera having following specifications and features etc :-					
	1)Type of Camera: Dome Camera					
	2) Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition					
	3) Signal System: PAL/NTSC					
	4) Minimum Illumination: 0.008Lux@ F1.4, AGC ON, 0 lux with IR or better					
	5) Imaging: 1/3s to 1/30000s Shutter Support, Auto Gain Control, White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking.					
	6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both.					
	7) Signal to Noise Ratio: > 50 dB					
	8) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR Source- Inbuilt IR LED's with effective distance upto 50 Mtrs integrated IR 30 Mtrs for colour view in night.					
	9) Video Compression (Minimum): H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723					

10) Wide Dynamic Range: WDR (120dB or more)					
11) Digital Noise Reduction: DNR (2D/3D) On/Off					
12) Streaming: Triple streaming, configurable					
13) Video Streaming & Frame Rates: Triple streaming , configurable Main stream: 5/6MP @25/30 fps, Sub streams: D1@25/30 fps or better					
14) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser					
15) Profile Management: User configuration import, export					
16) Security: User Authentication, Water Marking					
17) Onboard Storage: Camera should support built-in Micro SD/SDHC/SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card.					
18) Recording Management: Format SD, overwrite, storage management, video to NAS device,					
19) Edge Analytics : Tripwire, Intrusion, Motion Detection					
20) Alarm Trigger: Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection					
21) Alarm Support: It should have 1/1 Alarm In/ Out Port					
22) Audio Support: It should have 1x Built-In Mic and 1/1 Audio In/ Out Port for external Mic. and Speaker (As per site requirement) with G.711U/A/ G.711Mu/ AAC/ G.726 audio compression					
23) Network Protocol: SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast,					
24) System Capability: ONVIF					
25) VMS: Camera shall support open source VMS					

	26) Cyber Security: trusted boot, AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, , account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade.					
	27) Ethernet: 1 RJ 45 10/100 Ethernet port					
	28) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE—to ensure continuous operation in the event of a failure in one power source.					
	29) Power Requirement: 12VDC/24VDC/PoE (802.3af)/ePoE					
	30) Enclosure: IP67 weather proof, IK10					
	31) Operating Condition: Ambient Temperature:- (-) 05°C to 50°C, humidity 95% (max) (non-condensing)					
	32) IR life: 40000 hours or higher					
	33) Video Bit rate: 32 KBPS - 8 MBPS or better					
	34) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
	5MP/6MP IP IR 2.8/ 3.6/6/8/12 mm fixed lens (as per site requirement) Dome Camera.	3	12800.00	Each	38400	40.5.1E
3	Supplying Installation Testing and Commissioning of following Channel Network Video Recorder (NVR) with camera licenses to record for all channels having specifications and features etc as mentioned below :					
	1) Network Video Recorder Embedded/ Installed OS (Linux) along with Camera Licenses for number of channels of NVR to record per NVR and to provide a live view, storage and simultaneously Multi-channel playback of all IP, IR camera or more and must be ONVIF with minimum support of 256Mbps incoming Bandwidth.					
	2) NVR should support H.265 or better, H.264, MJPEG, MPEG4 support					
	3) Must support 1 channel Input, 1 channel Output, RCA for Two-way Talk					
	4) Intelligent auto power on when power resumes after power outage.					

5) Storage: It should support minimum 2 SATA Slots with 20TB capacity/ Slot.					
6) Connectivity Interface: 1 Nos. x 10/100/1000 Mbps Ethernet Ports, 1x RS485, 1x RS232					
7) Backup Interface: Its should have 2 Nosx USB port (1x USB3.0, 1xUSB2.0)					
8) Video Output Ports: 1x HDMI and 1 VGA					
9) Alarm Ports: It should have 4/1 Ch In/ Out ports to connect various type of external sensors and output devices like hooter/ Siren etc.					
10) Email & SMS Altert options: Option for SMS/ Email Alerts to minimum 5 designated mobile number for power failure, HDD failure, vandalism, tempring, network disconnection and panic					
11) Web & Mobile Application: Web, Mobile app (For iPhone, iPad, Android Phone) for alerts and viewing.					
12) Protocols: HTTP, HTTPS, TCP/IP, IPv4, UDP, NTP, DHCP, DNS, SMTP, UPnP, DDNS, Alarm Server, IP Search, Multicast, Auto Registration, ONVIF (Profile T, Profile S, Profile G), CGI, SDK and OEM Cloud for remote monitoring without any public IP need.					
13) Standards: CE, FCC, RoHS and BIS Certified					
14) Power Supply : Should support 12VDC, 4Amp or AC100-240V, 50/60Hz Power supply.					
15) Operating Condition: Ambient Temperature (-5°C to 50°C), humidity 90% (max) (non-condensing)					
16) The VMS, NVR application shall support all the features & functionalities of the offered cameras.					
17) VMS should consist of Base license and Channel Licenses. VMS should be provided with camera Licenses , with no dependency of VMS licenses by binding with the MAC address of the cameras to achieve the functionality.					

18) The NVR OEM shall be responsible for providing a mobile application compatible with both Android and iOS devices, enabling remote monitoring and playback of cameras/NVR footage.					
19) The OEM must provide its own DDNS server hosted in India, eliminating the need for a public IP address for remote monitoring over the Internet.					
20) Must support Resolution: 7680x4320 (8K), 3840*2160, 1920x1080, 1280x1024, 1280x720, 1024x768					
21) Must support recording resolution upto 32MP					
22) Must support Continuous, Alarm, Motion, Instant, Panic Recording Mode					
23) When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details. The snapshot function is supported on monitoring and playback page					
24) The Network Video Recorder (NVR) shall be configured to send email whenever a system message is created or an alarm event occurs. The email server shall be a valid SMTP server. Each recipient email address shall be configured to receive any combination of critical, warning, or informational messages or alarm notifications. When an alarm occurs, the email message includes the NVR name, time of alarm and a list of camera that is configured to record upon alarm					
25) It should support Network Support: HTTP, TCP/IP, SMTP, DHCP, DNS, DDNS, FTP, NTP, UPnP, Multi IP Setting. Convert multiple recording files to one avi/MP4 file.					
26) General AI Based Search: Search Pictures by channel, time, event type, target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection.					

27) Alarm Notifications based on: Motion detection, video tampering, video loss, scene changing, PIR alarm, Camera external alarm, Face detection, face recognition, perimeter protection (intrusion and tripwire), ANPR, people counting, stereo analysis, crowd distribution, heat map, Disk Full, Storage Error, IP Conflict and abnormal behavior of fan					
28) Alarm Notification should be linked with Recording, snapshots, Camera external alarm output, buzzer, logs, presets and email.					
29) Built-In Artificial Intelligence: NVR should have built-in AI:- - 2 Channel face detection and recognition, - Minimum 4 Channel perimeter protection, - Minimum 8 Channel Smart Motion Detection					
30) Face Recognition Database Capacity: It should support total Blacklist and Whitelist capacity of Minimum 20,000 Faces or more with Face Detection speed of 12 face images/sec.					
31) Face & Human Attributes Search: Search Pictures/ Video by Gender, age group, glasses, expressions, face mask, beard, Top color, top type, hat, bag, age, gender and umbrella.					
32) ANPR Capability: It should support ANPR Camera with License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle registration location etc vehicle attributes.					
33) Alarm Notifications based on: Motion detection, video tampering, video loss, scene changing, PIR alarm, Camera external alarm, Face detection, face recognition, perimeter protection (intrusion and tripwire), ANPR, people counting, stereo analysis, crowd distribution, heat map, Disk Full, Storage Error, IP Conflict and abnormal behavior of fan, cybersecurity exception					
34) Alarm Notification should be linked with Recording, snapshots, Camera external alarm output, buzzer, logs, presets and email.					

	35) General AI Based Search: Search Pictures by channel, time, event type, target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection.					
	36) Smart playback function: Should support smart search for the selected area in the video and smart playback to improve the playback efficiency					
	37) VCA (Video Content Analytic): Should support multiple video contented analytics based on camera analytics					
	16 Channel Network Video Recorder (NVR) having display split :- Main screen: 1/4/8/9/16, 2nd screen: 1/4/8/9/16	1	12799.00	Each	12799.00	40.10.2E
4	Supplying, Installation, Testing and Commissioning following capacity Serveillance grade Hard Disk with upto 256MB/s Transfer Rate, 256 MB Cache, 7200 RPM Disk Speed, 3.5 inch form factor, SATA Interface, BSMI, ICES-003/NNB-003, CE, FCC, KC, Maghreb, RCM, UKCA, VCCI, CB-Scheme, TUV, UL Certifications.					
4.1	6TB (Terabytes)	1	16376.00	Each	16376.00	40.12.2E
5	Supplying, drawing, Installation, Testing and commissioning of CAT6 UTP LSZH 23AWG Twisted Pair Cable in existing 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.					
5.1	1 Run of cable	500	60.00	Mtrs	30000.00	39.17.1E
6	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
6.1	25 mm	300	168.00	Mtr.	50400.00	1.21.2E

7	Supplying and fixing of following size Wall Mount Rack having Fixed Structure with 0.8mm CRCA Sheet, completely knocked-down condition (CKD) Shape, Vertical Mounting Rail 1.6 mm with 'U' Marking, Minimum 2 cable entry/exit provision at Top and bottom with rubber protection, Front 5mm Toughened Glass with lock, wall mounting kit, Powder coated Color- RAL- 7035, complied with UL & RoHS, 2 x 6 sockets 16A power distribution units, 3 numbers closed cable organizer, Hardware mounting screws packet of 20 x 1 number, etc. complete as required.					
7.1	6U Rack	1	6939.00	Each	6939.00	39.23.1E
8	Supplying, drawing, Testing and commissioning of Cat6A UTP 4 pair, 23 AWG solid copper cable in existing conduit/ on surface, U/FTP, LSZH, Non- Plenum, Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a 100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable with color coded insulation for easy identification should have FLAME PROPERTIES i.e. Flammability Test - IEC 60332-1, Smoke Density - IEC 61034, LSZH standards compliance: ANSI/TIA-568 C.2, ISO/IEC 11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outer Cable Diameter should be 7.5 + 2 mm. Cable should have been tested and verified by UL/ ETL etc. complete as required.					
8.1	1 Run of cable	100	74.00	Mtrs	7400.00	39.18.1E

9	Supplying, installation, Testing and commissioning of following capacity 8 port Layer 2 indoor Network Switch having features and specifications etc. as mentioned here under: Minimum 8 X RJ-45 Gigabit Ethernet Ports and additional 2 X 1G SFP Ports with non-blocking architecture by having Switching capacity of minimum 20Gbps and packet forwarding rate of 14Mpps or higher, 8K MAC table. Internal dual AC Power supply with operating temperature of -5 0C to +50 0C. Jumbo frame: 10KB or higher, IGMP Snooping, IGMP snooping querier and support for IGMP Snooping Fast Leave, Should create 250 or more MLD groups, MLD Snooping, Per VLAN MLD Snooping C MLD Snooping Fast Leave, STP, RSTP, MSTP, Loopback detection, Multicast filtering, VLAN Tagging, QOS: 8 Que per port, WRR, IPv4/IPv6 Interface : minimum 100 IPv4 static route entries and minimum 50 IPv6 static route entries, 700 Access Control entries, SSH CSSL for IPv4 and IPv6, 802.1x, ARP Spoofing, DHCP Snooping and server screening, IP+MAC+Port Binding, Per Port Bandwidth Control, 802.1X Authentication (Supports local/RADIUS database, Port-based Access Control and EAP, OTP, TLS, TTLS, PEAP Support) Cable Diagnostic feature, LLDP, LLDP-MED, SNTP/NTP, RMON, SNMP v1,v2c, v3 and SNMP Traps. Certifications: UL, CE, FCC, RoHS, MTCTE, OEM/Product must be on Trusted Telecom Portal of Department of telecommunication, Government of India etc. complete as required.					
9.1	8 port PoE Layer 2 Network Switch with PoE Support of 130W or higher with each copper port supporting 802.3at PoE+.	2	35091.00	Each	70182.00	39.1.1E
10	Supplying, Installation, Testing and Commissioning of following size LED display (LED monitor) industrial grade with 3840x2160 resolution or better, USB playback, Bluetooth and miracast connectivity, 4X HDMI 2.0, DP 1.2, HDR 10/10+, brightness: 500-nits or better, Video wall mode should be available, contrast ratio: 1200:1, OPS slot, viewing angle (H/V): 170°/ 170°, response time less than 12ms, Display control shall be on monitor screen and programmable with remote (remote shall be supplied with system), Key Board, Optical Mouse, etc. as required. (Make: LG /Samsung/Sony)					42.4E
10.1	42 inch or larger	1	51459.00	Each	51459.00	42.4.2E

11	Supplying and fixing of IP-65, PVC Junction Box in the existing CCTV Camera system on the existing surface complete etc. as required.	15	572.00	Each	8580.00	MR
12	Supplying and fixing of HDMI Cable of 10 Mtrs in the existing CCTV Camera system complete etc. as required.	1	4023.00	Each	4023.00	MR
				Total	446858.00	

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