GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

ORIGINAL NIT

No.:- 48/EE(E)/AGT/CPWD/2026-27

FOR

SITC of CCTV cameras at AG office, Aizawl, Mizoram.

Issued by

EXECUTIVE ENGINEER
CENTRAL PUBLIC WORKS DEPARTMENT
C.PW.D COMPLEX, USHA BAZAR,
AGARTALA-799009
(PHONE NO.: 0381-2952139)

C-
OW-**NIL**
I-

GOVERNMENT OF INDIA
EXECUTIVE ENGINEER
CENTRAL PUBLIC WORKS DEPARTMENT
C.P.W.D. COMPLEX, USHA BAZAR,
AGARTALA-799009
(PHONE NO.: 0381-2952139)

NOTICE INVITING TENDER

ORIGINAL NIT NO.:- 48/EE(E)/AGT/CPWD/2026-27

Name of work	:	**SITC of CCTV cameras at AG office, Aizawl, Mizoram.**
Estimated Cost	:	**₹ 17,74,251.00**
Earnest Money	:	**₹ 35,485.00**
Performance Guarantee	:	5% of Tendered value or Estimated Cost Put to Tender (ECPT) whichever is higher as mentioned in Schedule E.
Security Deposit	:	2.5% of tendered Value.
Completion Period	:	**02 (Two) Months**
LAST DATE FOR SUBMISSION OF BID DOCUMENT	:	**Up to 15:00 Hrs. on 03/11/2026**

NIT Containing 01 to 44 Pages as per Index amounting to **₹ 17,74,251.00 (Rupees Seventeen lakhs Seventy four thousand Two hundred and Fifty one only)** is hereby approved.

Executive Engineer(E)
ACED, CPWD, Agartala

C-
OW-**NIL**
I-

INDEX

Name of Work:- SITC of CCTV cameras at AG office, Aizawl, Mizoram.

N.I.T No:- 48/EE(E)/AGT/CPWD/2026-27

Sl. No.	Description	Page No.
1	Cover Page	1
2	Notice Inviting Tender	2
3	Index	3
4	Information and instructions for contractors for e-tendering forming part of NIT and list of documents to be uploaded on WEBSITE inviting e-tenders with in the period of bid submission.	4-6
5	Proforma for Receipt of Deposition of original EMD	7
6	CPWD-6 for e-tendering	8-15
7	CPWD-7 & Proforma of Schedules (A to F)	16-22
8	General terms & conditions	23-24
9	Preferred make list	25-27
10	Schedule of Quantities	28-43
11	Proforma for quoting tender percentage	44

Certified that NIT documents consist of Page No.1 to 44 including this Index page and Schedule of Quantities.

Executive Engineer (E)
CPWD, Agartala

C-
OW-**NIL**
I-

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT
(Applicable for inviting open tenders)

The **Executive Engineer(E), ACED, CPWD, Agartala-799009** on behalf of President of India invites online Percentage rate in single bid system from approved and eligible contractors of CPWD in Building & Road category (composite category)for the following work :-

NIT No.	**48/EE(E)/AGT/CPWD/2026-27**
Name of work & location	**SITC of CCTV cameras at AG office, Aizawl, Mizoram.**
Estimated cost put to tender	**Rs.17,74,251/-**
Earnest Money	**Rs.35,485/-**
Period of Completion	**02 (Two) Months**
Last date & time of submission of bids, EMD & other documents as specified in the NIT	**Upto 15:00 hrs. on 03/11/2026**
Time & date of opening Eligibility bid	**15:30 hrs. on 03/11/2026**

1. ~~The successful bidder/lowest bidder (to be called as Main Contractor) shall have to associate specialized agency(s) for execution of SITC of DG work work after acceptance of tender alongwith Performance Guarantee as per the details mentioned in "Special Conditions for association of Specialized Agencies".~~
2. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
3. Information and Instructions for bidders posted on website shall form part of bid document.
4. But the bid can only be submitted after deposition of original EMD either in the office of **Executive Engineer(E), ACED, CPWD, Agartala** inviting bid or Division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned document such as Insurance surety Bonds, Account Payee Demand Draft or Bankers Cheque or Fixed Deposit Receipt or / and Bank guarantee (A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs.20 lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee) from any of the Commercial Banks towards EMD in favour of **Executive Engineer(E), ACED, CPWD, Agartala,** receipt for deposition of original EMD to Division office of any Executive Engineer, CPWD including NIT Issuing EE / AE, CPWD and other document as specified.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.etender.cpwd.gov.in or www.cpwd.gov.in.
6. Those contractors not registered on the website mentioned above, are required to get registered before and. If needed they can be imparted training on online bidding process as per details available on the website.
7. The intending bidder must have valid class-III digital signature to submit the bid.
8. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.

C-
OW-**NIL**
I-

9. Contractor can upload documents in the form of JPG format and PDF format.
10. Contractor must ensure to quote percentage rate of works component as given in template. The column meant for quoting percentage rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.
11. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). However, if tenderer does not quote any percentage above or below on the total amount of the tender or any section / sub head in percentage tender, the tender shall be treated as invalid and not consider lowest tender.
12. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
13. This notice is also available on www.etender.cpwd.gov.in
14. The intending contractor is advised to visit the site of work, of his own, to acquainting himself regarding site details etc. prior to quoting the tender.
15. ~~When bids are invited in two stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.~~
16. ~~The eligibility cum-technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors shall be communicated to the bidders at a later date.~~
17. ~~When bids are invited in 2 Stage system following steps are to be followed.~~

i. ~~Entire bid document related to Eligibility Criteria, technical bid and financial bid are to be uploaded.~~

~~Stage I :- Stage I deals with eligibility criteria and technical bid for which pre bid conference shall be held to clear the doubt of intending bidders, if any. During this pre-bid meeting itself all relevant technical matters shall be discussed and concluded. Hence, bidders are requested to make suggestion of technical & commercial points during the meeting itself. The decision on these points shall be communicated through the Minutes of the meeting, and also uploaded. These shall form part of the bid document. No technical or commercial deviation shall be acceptable thereafter.~~

~~Stage II:- Revised/Original financial bids shall be opened later. The date and time of opening of financial bid shall be intimated to the eligible bidders.~~

C-
OW-**NIL**
I-

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

(i) Insurance surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee from any of the Commercial Banks against EMD infavour of **Executive Engineer(E), Agartala Central Electrical Division (ACED), CPWD, Agartala**.

(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) Enlistment Order of the Contractor in CPWD in appropriate class in Building & Road category (Composite).

(iv) Valid Electrical Contractor License **OR** an undertaking from Composite category Contractor that they will either obtain valid Electrical License at the time of execution of electrical work or Associate Contractor having valid electrical license of eligible class.

(v) GST Registration Certificate.

(vi) Name, Contact Number & e-mail of person to be contacted for clarification required if any.

(vii) ERP Training Certificate.

Executive Engineer (E)
ACED, CPWD, Agartala

C-
OW-**NIL**
I-

RECEIPT OF DEPOSITION OF ORIGINAL EMD

(Receipt No. …….... Dated. ……...)

Name of Work: SITC of CCTV cameras at AG office, Aizawl, Mizoram.

1. NIT No.: **48/EE(E)/AGT/CPWD/2026-27**
2. Estimated Cost : **Rs.17,74,251**/-
3. Amount of Earnest money deposit: **Rs.35,485/-**
4. Last date of submission of bid: **03/11/2026 upto 15:00 Hrs.**

---

1. **Name of Contractor: ……#**
2. **Form of EMD : ……#**
3. **Amount of Earnest money deposit: ……#**
4. **Date of submission of EMD: ……#**

Signature, Name & Designation of
EMD receiving Officer
(EE/AE(P)/AE/AAO)
along with office stamp

#To be filled in by EMD receiving EE.

C-
OW-**NIL**
I-

CPWD-6

भारत सरकार **GOVERNMENT OF INDIA**
केन्द्रीय लोक निर्माण विभाग **CENTRAL PUBLIC WORKS DEPARTMENT**
निविदा आमंत्रण सूचना **NOTICE INVITING e-BID**
(ई–निविदा के लिए@ For e-tendering)

1. ~~Item rate~~/percentage rate bids are invited on behalf of President of India from approved and eligible contractors of CPWD~~ and those of appropriate list of M.E.S., BSNL, Railway and…….. State P.W.D. (B&R) or State Govt.'s Department~~ …… (strike out as the case may be) ~~dealing with building and roads, if there is no State PWD (B&R)~~ for the Work of **SITC of CCTV cameras at AG office, Aizawl, Mizoram.**

The enlistment of the contractors should be valid on the last date of submission of bids.

In case only 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.17,74,251/-** 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 indicates 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 bidders is eligible to submit the bid provided he has definite proof from theappropriate authority, which shall be to the satisfaction of the competent authority, ofhaving satisfactorily completed similar works of magnitude specified below:-~~

~~Criteria of eligibility for submission of bid documents:~~

~~1.2.1 Conditions for Non-CPWD contractors only, if bids are also open to non-CPWD contractors.~~

~~For works estimated to cost upto tendering limit of class-I Buildings & Roads (erstwhile Composite/Building/ infrastructure)category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class I contractors of Horticulture category)~~

~~(i) Three similar works each of value not less than Rs……./- or two similar works each of value not less than Rs……./- or one similar work of value not less than Rs……./-(all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.~~

~~(ii) For EPC tender under Mode-I/II only (Applicable for CPWD enlisted contractors of appropriate class also)~~

~~One completed work costing not less than Rs. ……. executed with the structural system technology as proposed by bidder in the letter of transmittal during the last 7 yers ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.1 (i) above or as a separate work.~~

~~Note :-~~

C-
OW-**NIL**
I-

For works costing above tendering limit of class-II Buildings & Roads (erstwhile Composite/Building/infrastructure) category contractors but upto tendering limit of Class-I Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class-II and CPWD class-I contractors respectively of Horticulture Category) when bids are open to non-CPWD contractors also, then class-II contractors of CPWD registered shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.

1.2.2 **Criteria of eligibility for CPWD as well as non-CPWD contractors.**

For works estimated to cost above the tendering limt of class-I (Super) Buildings & Roads (erstwhile Composite/Building/infrastructure) category Contractor (However for Horticulture category, it may be modified as per bidding limit of CPWD class I contractors of Horticulture Category)

(i) Three similar works each of value not less than Rs..... or two similar works each of value not less than Rs..... or one similar work of value not less than Rs. ..... (all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.

(ii) For EPC tender under Mode-I/II/III and for all construction works (Applicable for CPWD enlisted and non CPWD contractors)

One completed work costing not less than Rs. ..... executed with the structural system technology as proposed by bidder in the letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.2 (i) above or as a separate work.

Or

If the bidder does not have adequate experience fo opted technology then the bidder can associate with contractor having requisite experience of executing work in structural system with the opted technology. Bidder has to submit MoU in the prescribed format (Annexure-68 of SOP) with such associate contractor, along with his tender, for structural system in opted technology only. The associated contractor must satisfy the eligibility criteria of having successfully completed one work of opted technology having the cost of structural system not less than 20% of the estimated cost put to tender during the last seven years ending last day of month previous to the one in which tgender is invited.

In case separate cost of structural system of a particular technology is not available in the experience certificate of associated contractor, it will be taken as 30% of completed cost of project/ work.

Associated contractor should not have been debarred from any Ministry or any govt. organization in the last five years.

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 bid.

To become eligible for issue of bid, the bidders 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 bidding

C-
OW-**NIL**
I-

~~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)~~

~~1-2-3 When bids are invited from non CPWD contractors and CPWD class II contractors as per provisions of **clause 1.2.1** above, it will be mandatory for non CPWD contractors and CPWD class-II contractors to upload the work experience certificate(s) and the affidavit as per the provisions of **clause 1.2.2.**~~

~~But for such bids, Class-I contractors of CPWD are eligible to submit the bids without submission of work experience certificate and affidavit. Therefore, CPWD class-I contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters is mandatory otherwise system will not clear mandatory fields.~~

2. Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD 7/8** (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website **www.cpwd.gov.in** Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be **02 (Two) 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: Yes.**

   ~~Or~~

   ~~The site for the work shall be made available in parts as specified below:-~~

   ~~……~~

   ~~(ii) The architectural and structural drawing for the work is~~

   ~~Or~~

   ~~The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.~~

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website www.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 rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.

C-
OW-**NIL**
I-

9. Earnest Money in the form of Insurance surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of **Executive Engineer(E), Agartala Central Electrical Division (ACED), CPWD, Agartala**.) 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 (E), ACED, CPWD, Agartala** inviting bids or Division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a Receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

   A part of earnest money is acceptable in the form of Bank Guarantee also. In such case, minimum 50% of earnest money or Rs.20 lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee including e-Bank Guarantee of any Commercial Bank having validity for a period of 90 days for single bid works and 180 days for two bid system or more from the last dater of receipt of bids which is to be scanned and uploaded by the intending bidders.

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

   Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e-tender shall be scanned and uploaded on the e-Tendering website whtin the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e-tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Onlienabid documents submitted by intending bidders shall be opened only of those bides, who has deposited EMD with any division of CPWD and other documents scanned and uploaded are found in order.

   The bid submitted shall be opened at 15:30 Hrs on 03/11/2026.

10. The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if:

   (i) The bidder is found ineligible**.**

   (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.

   (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the **lowest BIDDER** in the office of tender opening authority.

   (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/ below on the total amount of the tender or any section/ sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

11. The contractor whose bid is accepted, will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E' and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, then Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The Earnest Money deposited

C-
OW-**NIL**
I-

alongwith the 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.**

12. **The description of work is as follows:**

    Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A 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 & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

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

15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.

16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer to 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 gazette officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

C-
OW-**NIL**
I-

18. The bids 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 ~~75 (seventy five) days from the date of opening of Technical bids in case bids are invited in 2 or 3 bid system~~.**
Further.

(i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

(ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

(iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

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

a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and 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 7/8 or other Standard C.P.W.D. Form as applicable.

20. For Composite Bids

20-1-1The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.

20.1.2 ~~The bid document will include following three components:~~

~~**Part A:** CPWD-6, **CPWD-7/8** including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2014 as amended/modified upto…….~~

~~**Part B:** General / specific conditions, specifications and quantities applicable to major component of the work.~~

~~**Part C:** Schedule A to F for minor component of the work. (competent authority under clause 2 and clause 5 shall be same authority as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.~~

20.1.3 The bidders must associate himself, with agencies as per NIT conditions.

20.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.

20.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component(s).

C-
OW-**NIL**
I-

EE of major component will operate part A and part B of the agreement.

EE/DDH in charge of minor component(s) shall operate Part C along with Part A of the agreement.

20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.

20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

20.1.8 The main contractor has to associate agency(s) for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s).

20.1.9 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 relevant specialized component(s).
The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

20.1.10 The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to EE/DDH in charge of each relevant component as well as to EE in charge of major component. In case of change of associate contractor, the main contractor has to enter into MoU/agreement with the new contractor associated by him.

20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor. The CMB shall be maintained independently by Engineer-in-Charge of major and minor components.

20.1.12 A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.

20.1.12 B.Final bill of whole work shall be finalized and paid by the EE of major component.
Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

21. Integrity Pact: The contractor shall download the Integrity Pact, which is a par tof tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender equal or more than the threshold value given in Schedule-F. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.

22. The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/Assistant Engineer (Phone No.* ……., e-mail Id* ……) or ERP helpline No.18001803286 or e-mail Id cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

* To be filled in by NIT approving authority.

C-
OW-**NIL**
I-

~~23. Price Preference to SC/ST individual contractor for item rate/ percentage rate tender:~~

~~Price preference in quoted item rate/percentage rate tender shall be applicable to the individual enlisted/non-enlisted SC/ST contractor as under:-~~

~~(i) For work(s) upto and equal to an estimated cost of Rs.2.70 lakh a price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual SC/ST enlisted /non-enlisted contractor. No earnest money is required in such case (s).~~

~~(ii) For work(s) beyond an estimated cost of Rs.2.70 lakh and upto and equal to estimated cost of Rs.6.20 lakh, the price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual enlisted SC/ST contractor. However, earnest money at a reduced rate of ½% may be accepted in such cases.~~

~~The price preference upto 5% 9with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractor only. The above concession shall be allowed only after verification of the individual contractor's claim of belonging of SC/ST community.~~

C-
OW-**NIL**
I-

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: **Tripura**
BRANCH: **E&M** DIVISION: **Executive Engineer(E), Agartala**
ZONE: **Agartala** SUB-DIVISION: **AE(E), MzCESD, Aizawl**

Percentage Rate Tender & Contract for Works

Tender for the work of **"SITC of CCTV cameras at AG office, Aizawl, Mizoram."**

(i) To be submitted by **15:00 Hrs.** on **03/11/2026** to **Executive Engineer(E), CPWD, Usha Bazar, Agartala-09.**

(ii) To be opened in presence of tenderers who may be present at **15:30 Hrs.** on **03/11/2026** in the office of **Executive Engineer (E), CPWD, Usha Bazar, Agartala-09.**

Issued to :- _____

Signature of officer issuing the documents _____
Designation: **Executive Engineer (E), CPWD, Ushabazar, Agartala.**

Date of Issue :- _____

T E N D E R

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects of accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for …30… days from the due date of its opening in case of single bid system ~~or 75 (Seventy Five) days from the date of opening of Technical bid in case tenders are invited on two /three bid system~~ for ~~specialized work~~ and not to make any modification in its terms and conditions..

A sum of **Rs.35,485/-** is hereby forwarded in Insurance surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee (for balance amount as prescribed) issued by any of the Commercial Banks as earnest money.

A copy of earnest money in Insurance surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee (for balance amount as prescribed) issued by any of the Commercial Banks is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence

C-
OW-**NIL**
I-

work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated …… Signature of the Contractor

Postal Address ----------

Telephone No. ----------

Witness: ---------- FAX ----------

Address: ---------- E-MAIL ----------

Occupation: ----------

C-
OW-**NIL**
I-

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 _____

C-
OW-**NIL**
I-

SCHEDULES

SCHEDULE 'A'

Schedule of quantities (as per PWD-3) - (As per Schedule Attached)

SCHEDULE 'D'

Extra schedule for specific requirements/documents for the work, if any - **Nil**

SCHEDULE 'E'

Reference to General Conditions of contract (GCC-EPC Project-2022/ GCC-Maintenance work-2023/ GCC-Construction work-2023)	:	**General conditions of contract for Maintenance Work- 2023 as modified and corrected up to previous day of last day of submission of tender).**
Name of Work	:	**SITC of CCTV cameras at AG office, Aizawl, Mizoram.**
Estimated cost of work	:	**Rs.17,74,251/-**
(i) Earnest Money	:	**Rs.35,485/-**
(ii) Performance Guarantee	:	5% of Tendered value or Estimated Cost Put to Tender (ECPT) whichever is higher as mentioned in Schedule E.
(iii) Security Deposit	:	2.5% of tendered value of the work to be deducted from each R/A Bill.

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS

Officer inviting tender **: Executive Engineer (E), CPWD, Agartala-09, Tripura.**

Definitions

2(v) Engineer -in- Charge **: Executive Engineer (E), CPWD, Agartala-09, Tripura.**

2(viii) Accepting Authority **: Executive Engineer (E), CPWD, Agartala.**

2(x) Percentage on cost of materials and Labour to cover all overheads and profits **: 15%**

2(xi) Standard Schedule of Rates **: Based on Current Minimum wages of labour of Central Government, Market Rates & DSR-2025**

2(xii) Department **: Central Public Works Department.**

9(ii) Standard CPWD Contract Form GCC 2023, CPWD Form 7/8 as modified & corrected up to previous day of last day of submission of tender). **: GCC-2023 Maintenance Work, CPWD Form 7 amendment upto date.**

Clause 1

(i) Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance. **: 07 days**

(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above ….... **: 03 days**

C-
OW-**NIL**
I-

Clause 2

Authority for fixing compensation under : **Chief Engineer, CPWD, Agartala.**

Clause-2

Clause 2A

Applicable clause 2/ Clause 2A : **No**

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start Mile stone(s) as per table given below. : **10 days**

Mile stone(s) as per table given below:-

S.No.	Description of milestone (Physical)	Time allowed in days (from date of start)	Amount to be with held in case of non achievement of milestone (of agreement amount)
NIL			

Time allowed for execution of work : **02 (Two) Months**

Authority to decide

(i) Authority to convey the decision of shifting of milestone and extension of time. : **Chief Engineer (E), CPWD, Agartala.**

(ii) Authority to decide rescheduling of milestone and extension of time. : **Chief Engineer, CPWD, Agartala.**

(iii) Shifting of date of start in case of delay in handing over of site **Chief Engineer, CPWD, Agartala.**

Clause 6 : Mode of Measurement : **Electronic Measurement Book / CMB**

Clause 7

Clause 7 : Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment. : **Rs.9.00 Lakhs of part thereof**

Clause 7A

Whether clause 7A shall be applicable : **Yes**

Clause 10A

List of testing equipment to be provided by the contractor at site lab.

1. Earth Tester 2 .Meggar 3. Clamp Meter

4..... 5 ..... 6.....

---------- **As per direction of Engineer-in-charge** ----------

Clause 10B (ii)

Whether **Clause 10 B (ii)** shall be applicable : **No**

Clause 10C

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

Clause 10 CC

Schedule of Electrical component of other Materials, Labour etc. for price escalation : **Not Applicable**

Component of Electrical Material expressed as percentage of total value of work. :

Component of Labour

Expressed as percentage of total value of work : Not Applicable

C-
OW-**NIL**
I-

Clause 11

Specifications to be followed for execution of work	:	**C.P.W.D. General Specifications for EI works, HVAC, Lift, Sub-Station, DG Set, Wet Riser System, Fire Fighting, Fire Alarm & Detection System as amended upto date & as per Terms & conditions attached.**

Clause 12

Type of work	:	**Maintenance work.**
Authority to decide deviation upto 1.5 times of tendered Amount	:	**Chief Engineer-Agartala, CPWD, Agartala**
12.2. & 12.3 Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for this work	:	No limit.
12.5 (i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth	:	N.A.
ii) Deviation Limit for items mentioned in earth Work subhead of DSR and related work	:	NA

Clause 16

Competent Authority for deciding reduced rates	:	**Chief Engineer, CPWD, Agartala.**

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site

1.Ladder 2 . Spanner Set 3. Screw Driver Set

4.Test Lamp 5 . Plier 6.....

---------- **As per direction of Engineer-in-charge** ----------

Clause 19 C:	**Competent Authority to decide penalty for each default as per GCC 2023 provisions**
Clause 19D:	
Clause 19G:	
Clause 19K:	

Clause 25

Constitution of Dispute Redressal Committee (DRC)	Conciliator	ADG (RG), CPWD, Guwahati
	Arbitrator Appointing authority	Chief Engineer-Agartala, CPWD, Agartala
	Place of Arbitration	Agartala

Clause 32

Requirement of Technical Representative(s) and recovery Rate: -

S. No	Minimum Qualification of Technical Representative	Minimum experience (years)	Discipline	Designation (Principal Technical /Technical Representative)	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32 (i)	
						Figures	Words
1	**As per latest provision.**						

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

Diploma holder Engineer with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holder Engineers should not exceed 50% of requirement of degree engineers.

C-
OW-**NIL**
I-

****General Conditions of Contract for Central Public Works Department Works–2023 for Maintenance Works and copy of amendments applicable for GCC- 2023 for Maintenance Works up to date of submission of bid.**

Following amendments as issued by the DG, CPWD will also form the part of the agreement, which are available on the website (*http://cpwd.govt.in/circuar/con*) of the CPWD and can be seen / downloaded by all.

Sl. No.	***O.M. No.***	***Dated***
1.	DG/CON/Maintenance 2023/02	08.12.2023
2.	DG/CON/Maintenance 2023/03	18.12.2023
3.	DG/CON/Maintenance 2023/04	08.02.2024
4.	DG/CON/Maintenance 2023/05	01.03.2024
5.	DG/CON/Maintenance 2023/06	01.03.2024
6.	DG/CON/Maintenance 2023/07	05.03.2024
7.	DG/CON/Maintenance 2023/08	03.06.2024
8.	DG/CON/Maintenance 2023/09	03.06.2024
9.	DG/CON/Maintenance 2023/10	09.10.2024
10.	DG/CON/Maintenance 2023/11	29.10.2024
11.	DG/CON/Maintenance 2023/12	03.01.2025
12.	DG/CON/Maintenance 2023/13	31.01.2025
13.	DG/CON/Maintenance 2023/14	10.02.2025
14	DG/CON/Maintenance 2023/15	03.03.2025
15	DG/CON/Maintenance 2023/16	16.06.2025
16	DG/CON/Maintenance 2023/17	06.11.2025
17	DG/CON/ Maintenance 2023/18	27.02.2026
18	DG/CON/ Maintenance 2023/19	25.03.2026
19	DG/Manual-2024/20	27.02.2026
20	DG/SOP-2024/22	23.03.2026
	Any other circular/OM issued up to date of submission of the bid.	

C-
OW-**NIL**
I-

GENERAL CONDITIONS FOR E&M WORK

1. The work shall be executed as per CPWD General Specifications for Electrical Works (Part-I–Internal) 2023, (Part-II–External) 2023, Part–IV (Substation 2013), Part–V (Wet Riser and Sprinkler System) 2020, Part – VI (Fire Detection and Alarm System, Part–VII (DG set) 2013 Amendment (05.11.2024), and Part-III Lift & Escalators-2003, Amendment No.1 relevant IS and BIS standards.
2. **Rates:** The rates quoted by the tenderer for electrical component items shall be firm and inclusive of all taxes (including works contract taxes), duties and levies and all charges for packing forwarding, insurance, freight and delivery installation, testing and commissioning etc. at site including temporary constructional storage, risks, overhead charges general liabilities/obligations and clearance from local authorities. However, the fee for these inspections shall be borne by the department.
3. **Completeness of Electrical work:** All hardware items such as screws, thimbles, G.I. wires etc. which are essentially required for completing an Electrical BOQ item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned. All hardware materials such as nuts/ bolts/ screws/ washers etc. to be used in the electrical scheduled items shall be zinc/cadmium plated iron. Nothing extra on account of same shall be paid.
4. For items/equipment requiring initial inspection at manufacturer's works' the contractor will intimate the date of testing of equipment at the manufacturer's works before dispatch. The department reserves the right to inspect the fabrication job at factory and the successful tenderer has to make the arrangement for the same. The successful tenderer shall give sufficient advance notice regarding the dates proposed for such tests/inspection to the department's representative(s) to facilitate his presence during testing/fabrication. The Engineer-in-charge at his discretion may waive off such testing/fabrication. The cost of the Engineer's visit to the factory will be borne by the Department. Also equipment may be inspected at the Manufacture's premises, before dispatch to the site by the contractor.
5. **Storage and custody of electrical installation materials:** The room may be used for storage of sundry materials and erection equipment if available or else the agency has to make his own arrangement. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department/ Client.
6. **Power Supply:** Required electrical power shall be arranged by the contractor for installation purpose and payment for electricity charges shall be made by contractor. Electrical power supply required for testing of entire installation after completion shall be arranged by the department.

C-
OW-**NIL**
I-

7. **Erection Tools:** No tools and tackles either for unloading or for shifting the equipment for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.
8. The chases in wall shall be done by chase cutting machines, for which the contractor shall arrange adequate numbers of chase cutting machines i.e. chase cutters for cutting chases in wall etc. for laying of conduit within the scope of work within the quoted rates.

9. **Terms & Payment for internal electrical installation/work:**

The following percentage of contract rates for the various items included in the contract shall be payable against the stage of work shown herein.

Sl. No.	Stage of work	% age of Quoted Rate for Item
a)	On initial inspection of equipment and delivery at Site in good condition on pro-rata basis.	60%
b)	On completion of pro-rata installation	20%
c)	On completion of pro-rata Testing and commissioning and successful taking over by the Department/ Client	20%

C-
OW-**NIL**
I-

LIST OF APPROVED MAKES FOR ELECTRICAL INSTALLATION AND OTHER ELECTRO – MECHANICAL EQUIPMENTS		
1.	FRLS PVC insulated copper conductor single core cable 1.1 Kv grade for wiring (ISI marked)	Finolex/ RR Kabel/ KEI/Havells/ Polycab
2.	XLPE insulated PVC sheathed Aluminum / Copper conductor Armoured/Unarmoured cable of 1.1 KV grade (ISI marked)	Finolex/ RR Kabel/ KEI/Havells / Polycab
3.	MS Conduit (ISI marked) and accessories such as bend, junction boxetc	BEC/ NIC/ RM-CON / VIKAS
4.	PVC Conduit (ISI marked) (mediam class & PVC conduit accessories)	AKG/Norpack/BEC/Polycab/Precision
5.	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO's	Schneider Electric ACTI-9(N)/ Legrand (DX3) / Hager / L&T (Exora) / ABB (ITUS) / Seimens (Betaguard) / C&S (Winbreak-1/2) / BCH
6.	MCBDB & Loose Wire Box & accessories	Schneider Electric ACTI-9(N)/ Legrand (DX3) / Hager / L&T (Exora) / ABB (ITUS) / Seimens (Betaguard) / C&S (Winbreak-1/2)
7.	Moulded Case Circuit Breaker (MCCB) Thermal release (Ics=Icu=100%)	Schneider Electric / Legrand (DPX3) / L&T (D-Sine) / ABB (TMax) / Seimens (VLseries) / C&S (Winbreak-1/2)
8.	Timer	Schneider Electric / Legrand / hager / L&T/ ABB/Seimens / C&S/ Havells.
9.	Change Over Switch	L&T / Havells / ABB / Hager/ Schneider Electric / BCH
10.	DOL Starter	L&T / Siemens / ABB / Hager/ Schneider Electric
11.	Automatic Transfer Switch (ATS)	Assco / Russel / Socomac / Hager / ABB / L&T/ Schneider Electric / AE / Rishabh
12.	Selector Switch & Toggle switch	Salzer (Larsen & Toubro)/ Siemens / Kaycee/Rishabh/ABB
13.	Cable Junction Box	Sintex / HENSEL / Raychem
14.	Terminal Blocks and connectors	Elmax / Wago / Hensel / Connectwell
15.	Phenolic Laminated sheet/ Bakelitesheet	Hylam / Formica (P-I Grade) / Mylam/Greenlam
16.	Polycarbonate Junction Box/ Enclosure	Hensel / Spelsberg / Naptune-Bals/ Sintex
17.	Modulear Switch, Socket/ Telephone socket / cable TV Socket / Data outlet socket / Fan Regulator / GI Boxes Etc. (Wiring Accessories) Regulators etc.	Crabtree (Murano) / Honeywell (Horizon) / Schneider Electric (Unica pure) / L&T (Englaze).
18.	Call bell/ Buzzer / Ceiling rose	Anchor/ Leader/ Rider / Precision.
19.	Ammeter & Voltmeter	AE/ Rishab / L&T/C&S/HPL
20.	Conventional / Electronic Digital Meter (A/V/PF/Hz/KW/KWH)	Conzerv / Larsen &Tourbo / C&S / AE
21.	LED indicating lamp / Push Button	Schneider Electric / L&T / Siemens / C&S/Vaishno
22.	LED bollard light fitting	Crompton / Havells/Regent/Trilux/Philips
23.	LED Post Top fitting	Crompton model Chaplet or similar in Havells/ LT / Philips /Regent/Trilux
24.	LED Flood fitting	Crompton / Philips / Regent/ Trilux/ Bajaj/ Havells
25.	LED 2X2 fittings	Crompton / Havells / Philips/ Trilux / /LT /Bajaj

C-
OW-**NIL**
I-

26.	LED light fitting	Philips / Cromptom / Wipro / Trilux / Havells/LT
27.	G.I. Pipe	Tata / Jindal (Hissar) / Prakash Surya / Utkarsh / Bansal
28.	GI Octagonal Pole, Bracket and accessories	Utkarsh / Subham / Philips / Bajaj / Skipper.
29.	Angle Holder/ Batten Holder (ISI marked)	Anchor/ Leader/ Rider / Precision.
30.	Cat 6 Cable, Wires	Legrand / D-link/ Havells/ Siemon / Belden / Systimax
31.	Armoured / Unarmoured Telephone, TV cable, Co-axial cable, Tag Block	Delton/ Finolex/ RR cable/ Havells
32.	Exhaust fan/ Fresh air fan	Crompton / Havells / Orient/ Usha / Bajaj
33.	Cover plate for junction boxes	Hylem / Formica (i.e. white 3 mm thick).
34.	LT Panel, APFC Panel, Feeder Pillar, Fire Panel (All Panels)	Brahmaputra power & controls / S.K. Engineering Works / Green galaxy / Technomech / APC Panel/ Electro Allied Project/ Tricolite/ Amit Project & controls/ Mariana Enterprise /Sidhi Vinayak Power Solutions/ Advance Panels & Switchgears Pvt. Ltd.
35.	Wall Fan	Usha – Mist air flo or similar in Crompton /Havells / Orient
36.	DWC HDPE pipe (ISI Marked)	Duraline / Rex / Supreme / Tirupati / Gemini
37.	Cable junction Box	Hensel / Sintex / Cape / Standrad
38.	Cable gland	Hensel / Sintex / Dowell / 3M
39	MS Swage type Pole & Accessories	Subham / RR Ispat / Utkarsh.
40.	GI Octagonal Pole & Accessories	Utkarsh / Skiper / Bajaj / RR Ispat
41.	Mono block pump set	Kirloskar / Crompton / KSB / Calama / Grundfoss.
42.	Bore well pump set	Kirloskar / Crompton /KSB / Calama / Grundfoss
43.	Metal Valves	Kirloskar / Honeywell / Sant / Leader / Zolloto
44.	Cable Glands, Lugs	Dowell/Jhonson/Comet/Gripwel
45.	Indoor, Outdoor & straight through joint	3M / Raychem/ M-seal
46.	***Any other item not mentioned above***	***With prior approval from the Engineer-in-charge***

Executive Engineer (E)
ACED, CPWD, Agartala

C-
OW-**NIL**
I-

LIST OF PREFERRED MAKES FOR CCTV

Sl. No.	ITEM	Name of Manufacturers
1	NETWORK SWITCH	CISCO/ AVAYA/JUNIPER/EXTREME/HP
2	CCTV CAMERA	HIK VISION/ HONEYWELL / MOBOTIX /JORDAN/ VICON/ TYCO/ GANZ / AXIS / SONY / CP PLUS / MATRIX
3	HDD	Seagate/WD
4	WIRELESS CONTROLER	CISCO/ AVAYA/ JUNIPER/EXTREME/HP
5	ACCESS POINT POE	CISCO/ AVAYA/ JUNIPER/EXTREME/HP
6	NVR / KEYBOARD	HONEY WELL/BOSCH/SONY/ PELCO/ SAMSUNG
7	LED TV	SONY/LG/PANASONIC/SAMSUNG
8	Network Rack	RITTAL/PANDUIT-PANNET/SCHNEIDER/VALRACK/ MTS/POWER RACK/NETRACK/POWERIDE
9	CAT 6/CAT5 CABLE	LEGRAND/PANDUIT – PANNET/SIEMON/BELDEN/ SYSTIMAX / DIGISOL/ POLYCAB/ KEI
10	PATCH PANEL /PATCH ORD/RJ45 WITHFACE LATE	LEGRAND/PANDUIT ANNET/SIEMON/BELDEN/SYSTIMAX
11	FIBRE CABLE AND COMPONENT	LEGRAND/PANDUIT – PANNET/SIEMON/BELDEN/SYSTIMAX
12	FACE PLATE / ADAPTOR PLATE	LEGRAND/PANDUIT – PANNET/SIEMON/BELDEN
13	WALL MOUNTING CABINETS / CABLE MANAGER	LEGRAND/EMERSON/ PANDUIT/RITTAL/VALRACK
14	SFP MODULE	CISCO/ AVAYA/HUAWEI/JUNIPER/EXTREME/HP
15	IPPBX	PANASONIC/CISCO/MITEL/ALCATEL/PROGILITY/ AVAYA/NEC/ CORAL
16	CCTV STORAGE HDD	SAMSUNG /WD /SEAGATE
17	ANY OTHER ITEM NOT MENTIONED ABOVE	WITH PRIOR APPROVAL OF THE ENGINEER-IN-CHARGE

Executive Engineer (E)
CPWD, Agartala

C-
OW-**NIL**
I-

SCHEDULE OF WORK

Name of work:- SITC of CCTV cameras at AG office, Aizawl, Mizoram.

Sl. No.	Description of items	Qty.	Rate	Unit	Amount	DSR2025/MR
1	Supplying, installation, Testing and commissioning of following capacity 24 port Layer 2 indoor Network Switch having features and specifications etc. as mentioned here under: At least 24 X RJ-45 Gigabit Ethernet Ports and additional 2 X 10G Base -T with 4 X SFP Ports with non-blocking architecture by having Switching capacity of min. 128Gbps and packet forwarding rate of 95Mpps or higher, 16K MAC table. Console Port, USB port, Stacking support of min. 4 units per stack. Internal dual AC Power supply, STP, RSTP, MSTP, BPDU Filter, BPDU Restriction, Min. 9K Jumbo Frame, LBD, IGMP Snooping V1/V2/V3, MLD Snopping V1/V2. IGMP /MLD Groups 1K or more, IPv4/IPv6 Loopback Interface, 16 L3 IP Interface, Ipv6 ND, VRRPv3, UDP Helper, ECMP. VLAN: 802.1Q, Port based, Q-in-Q, Multicast VLAN, Protocol VLAN, VLAN Trunking, DHCP Snopping, Server, server Screening. RADIUS , TACACS+ Authentication, QoS: 802.1P, 8 queues per port, QoS : WRR, Strict+WRR, WRED, 802.1p. ACL: MAC based, IPv4C IPv6, TCP/UDP Port number, time based ACL, TFTP Client, SNMP V1, v2c, v3, SNMP traps, RMON, DHCP server, relay, client, LLDP, LLDP-MED, OAM, Dying Gasp, 802.3ah, sflow, RIP,					DSR 2025 – 39.3

C-
OW-**NIL**
I-

	OSPF v2/v3, policy based route, SSL, SSH. 6 kV surge protection on all Gigabit Ethernet ports and on all GE RJ-45 access ports. Certifications: FCC, CE marked, UL/EN, RoHS and relevant MTCTE(TEC)/BIS compliance/certification as applicable, etc. complete as required.					
1.1	24 port PoE Layer 2 Network Switch with PoE Support of 370W or higher with each copper port supporting 802.3at PoE+ min.	2.00	125393	Each	250786.00	39.3.1
2	Supplying, installation, Testing and commissioning of following capacity 24 port Layer 3 Network Switch having features and specifications etc. as mentioned here under: At least 20 X RJ-45 Gigabit Ethernet Ports and additional 4 combo 10/100/1000 base-t/SFP Ports with additional 4 SFP+ ports non-blocking architecture by having Switching capacity of min. 128Gbps and packet forwarding rate of 95Mpps or higher, 16K MAC table. Console Port, USB port, Dual AC Power supply with operating temperature of 0 to +50 0C. Stacking port with stacking support of minimum 8 units per stack. 32K Mac address, 9K or more Jumbo frame, ERPS with enabling ring to converge in less than 50 ms from node or link failure, Static routing, Static, 6to4, ISATAP and GRE, IPv6 Neighbor Discovery (ND), BGP/ ISIS/ MPLS/ VRRP v2/ OSPFv2/v3, PBR, Route Redistribution, RIPv1/v2/ng, IP Helper all L3 Protocols should support from day 1 for both IPv6 and	1.00	193791	Each	193791.00	DSR 2025 – 39.4

C-
OW-**NIL**
I-

	IPv4, 802.1x, Port security , Radius C TACACS+ authentication C accounting, DAD, DAI, DoS attack prevention, SSH, Guest VLAN, IP Access List, MAC Access List. Multicast: VLAN, PIM-SM, PIMDM, PIM- SDM, PIM-SMv6, DVMRP v3 and MSDP, IGMP C MLD Snooping, Flow mirroring, IGMP C MLD Snooping querier, Per-VLAN IGMP C MLD Snooping. SNMP, Dual configurations, Multiple images, RMON, LLDP/LLDP-MED, sFlow, DHCP/BOOTP Client, IPv4/IPv6, Syslog server, Debug command, 802.3ah Ethernet Link OAM, 802.1ag Connectivity Fault, Y.1731 OAM, 802.1Qbb Priority-based Flow Control (PFC), Dying Gasp, Cable Diagnostics , 6 kV surge protection on all Gigabit Ethernet ports and on all GE RJ-45 access ports. Certifications: FCC, CE marked, UL/EN, RoHS and relevant MTCTE(TEC)/BIS compliance/certification as applicable, etc. complete as required.					
3	Supplying, Installation, Testing and commissioning of small form-Pluggable (SFP) for Network Switches. Must be hot Pluggable, RoHS Complaint, etc. complete as required.					DSR 2025 – 39.6
3.1	10 G SFP + Single Mode/Multi Mode 14972	20.00	14972	Each	299440.00	39.6.3
4	Supplying, Installation, Testing and commissioning of following CAT6 Patch Cord should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D etc. complete as required.					DSR 2025 – 39.12

C-
OW-**NIL**
I-

4.1	Copper Patch Cords of length 1m (3ft)	45.00	151	Each	6795.00	39.12.1
5	Supplying, Installation, Testing and commissioning of RJ45Connector for CAT 6/6A Cables. RJ45 modular plug supports 4twisted pairs, 8 positions, 8 connectors. Housing: PC, UL94V-2, transparent color. Use for 24-26 AWG stranded wires.	60.00	9	Each	540.00	DSR 2025 – 39.16
6	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.					DSR 2025 – 39.17
6.1	1 Run of cable	400.00	60	Meter	24000.00	39.17.1
7	Supply and fixing following port Rack Mount loaded LIU with pigtail, Front-mounted cable saddles for jumper management, suitable to manage both splices and terminations, Pre-assembled shelves in multiple configurations, Rubber fiber slotted bracket built-in, metal splice shelf to protect the fibers, 2 fiber spools built-in for 900µm tight buffered fiber storing, Capable of storing up to 3 meters of 900µm tight buffered fiber per adapter, Removable front and rear covers for better access to interior of LIU, Should be Single / Multi					DSR 2025 – 39.21

C-
OW-**NIL**
I-

	mode LC Type fully loaded. Accessory kit consists of cable ties, mounting ear screws, and spiral wrap tube etc complete as required.					
7.1	24 Port LIU	2.00	10049	Each	20098.00	39.21.3
8	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.					DSR 2025 – 39.23
8.1	9U Rack	2.00	8960	Each	17920.00	39.23.2
9	Supplying and fixing 24U Rack with 4 inch Castor wheels and front brake Floor Standing Rack with Main Frame Pillar of 1.25mm Powder Coated CRCA Sheet with removable side panels, L- Shape adjustable Vertical Mounting Rail of 2mm with 'U' Marking completely knocked-down condition (CKD) Shape, fitted with 4 number cooling fans, minimum 5nos two line cable entry/exit provision at top and bottom with rubber protection, Front door 5mm Toughened Glass with MS frame or MS perforated with lock, Rear MS vented or perforated door, Powder coated Color- RAL- 7035 or black, complied with UL &	1.00	21201	Each	21201.00	DSR 2025 – 39.24

C-
OW-**NIL**
I-

	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.					
10	Supplying Installation Testing and Commissioning of 4MP IP IR Outdoor Bullet Camera having following specifications and features etc :- 1) Signal System: PAL/NTSC, Signal to Noise Ratio: > 50 dB, Camera should display Camera title, Date & Time in live & recorded video 2)Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition(Minimum Illumination: 0.006 Lux@ F1.4, AGC ON, 0 lux with IR or better) True Day & Night High Performance Mechanical IR cut filter with auto switch, Integrated IR Source (Auto, Manual)- Inbuilt IR LED's with effective distance upto 50 meter or better and 30 meter for colour view in night, Imaging: 1/3s to 1/30000s electronic shutter support, Auto Gain Control , White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking. 3) Compression (Minimum): Video:- H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 4) Wide Dynamic Range:- WDR (120dB or more) 5) Digital Noise Reduction:- DNR (3D) On/Off 6) Video Streaming & Frame Rates:- Triple streaming,					DSR 2025 – 40.4

C-
OW-**NIL**
I-

	configurable Main stream: 4MP (2560×1440)25/30fps Sub streams minimum: 720P@25/30 fps 7) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser, Edge Analytics: Tripwire, Intrusion, Motion Detection 8) Cyber Security: AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade 9) 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. 10) Recording Management: Format SD, overwrite, storage management, video to NAS device, 11) Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection 12)Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast, 13) System Capability: ONVIF, Camera shall support open source VMS 14) Ethernet: 1 RJ 45 10/100 Ethernet port 15) Audio : It should support 1 x Built-In Mic and 1/1 Alarm In/ Out for External Mic. and Speakers as per site requirement. 16) Power Input: The camera					

C-
OW-**NIL**
I-

	should support simultaneous dual power input—12 VDC (via power adapter) and PoE (802.3af)—to ensure continuous operation in the event of a failure in one power source. 17) Power Requirement: 12VDC/24 VDC/PoE (802.3af)/ePoE 18) Housing/ Enclosure:- IP67 weather proof, IK10, Metallic body 19) Operating Condition:- Ambient Temperature:- (-)05°C to 50°C, humidity 95% (max) (non-condensing) 20) IR life: 40000 hours or higher 21) Video Bit rate: 32 KBPS - 8 MBPS or better 22) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
10.1	4MP @ 25/30fps@1440P (2560x1440) Outdoor Bullet Camera with 2.7 to 4 mm ~12 to 13.5mm or better Varifocal Motorized lens.	15.00	23754	Each	356310	40.4.2
11	Supplying Installation Testing and Commissioning of 4MP IP IR Dome Camera having following specifications and features etc :- 1) Signal System: PAL/NTSC, Signal to Noise Ratio: > 50 dB, Camera should display Camera title, Date & Time in live & recorded video 2)Image Sensor: 1/2.8" or better progressive Scan CMOS to get color image even at night condition(Minimum Illumination: 0.006 Lux@ F1.4, AGC ON, 0 lux with IR or better) True Day & Night High Performance Mechanical IR cut filter with auto switch, Integrated IR					DSR 2025 – 40.3

C-
OW-**NIL**
I-

	Source (Auto, Manual)- Inbuilt IR LED's with effective distance upto 50 meter or better and 30 meter for colour view in night, Imaging: 1/3s to 1/30000s electronic shutter support, Auto Gain Control, White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking. 3) Compression (Minimum): Video:- H.265 or better, H.264H, H.264, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 4) Wide Dynamic Range:- WDR (120db or more) 5) Digital Noise Reduction:- DNR (3D) On/Off 6) Video Streaming & Frame Rates:- Triple streaming, configurable Main stream: 4MP (2560×1440)25/30fps, Sub streams minimum: 720P @ 25/30 fps 7) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser, Edge Analytics: Tripwire, Intrusion, Motion Detection 8) Cyber Security: AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade. 9) On board Storage: Camera should support built-in Micro SD/ SDHC/ SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card. 10) Recording Management: Format SD, overwrite, storage management, video to NAS device,					

C-
OW-**NIL**
I-

	11) Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection 12)Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast, 13) System Capability: ONVIF, Camera shall support open source VMS 14) Ethernet: 1 RJ 45 10/100 Ethernet port 15) Audio : It should support 1 x Built-In Mic and 1/1 Alarm In/ Out for External Mic. and Speakers as per site requirement. 16) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE (802.3af)-to ensure continuous operation in the event of a failure in one power source. 17) Power Requirement: 12VDC/24 VAC/PoE (802.3af)/ePoE 18) Housing/ Enclosure:- IP67 weather proof, IK10, Metallic body 19) Operating Condition:- Ambient Temperature:- (-) 05°C to 50°C, humidity 95% (max) (non-condensing) 20) IR life: 40000 hours or higher 21) Video Bit rate: 32 KBPS - 8 MBPS or better 22) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
11.1	4MP @ 25/30fps @1440P (2560x1440) Dome Camera with 2.7mm ~13.5mm Motorized lens, Vari Focal	15.00	23754	Each	356310.00	40.3.2

C-
OW-**NIL**
I-

	(view Angle for H: 104°–29°; V: 54°–16°; D: 125°–34°)					
12	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 to record per NVR and to provide a live view, storage and simultaneously Multi-channel playback of all IP camera or more and must be ONVIF with minimum support of 384 Mbps incoming Bandwidth. 2) NVR should support video compressions : H.265 or better, H.264, MJPEG. 3) Must support 1 channel RCA Input, 2 channel RCA Output for Two-way Talk with G.711U/A, G.711u, PCM, G726 audio compressions. 4) Intelligent auto power on when power resumes after power outage. 5) Storage:It should support minimum 8 SATA Slots with 16 TB capacity/ Slot and RAID support of RAID 0/1/5/6/10. (4 SATA (32 Channel) & 8 SATA Slot for 64 Channel) 6) Connectivity Interface : 2 Nos. x 10/100/1000 Mbps Ethernet Ports, 1x RS485, 1x RS232, 1x eSATA Port 7) Backup Interface : Its should have 4 Nosx USB port (2x USB3.0, 2xUSB2.0) 8) Video Output Ports: 2x HDMI and 2 VGA 9) Alarm Ports: It should have 16/8 Ch In/ Out ports to					DSR 2025 – 40.11

C-
OW-**NIL**
I-

	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, tempering, 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/IPv6, UDP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, 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, BIS Certified 14) Power Supply : Should support AC100-240V, 50/60Hz Power supply. 15) Operating Condition : -5°C to 50°C, humidity 90% (max) (non-condensing) 16) The VMS application shall support all the features & functionalities of the offered cameras. 17) VMS should consist Licenses for all channels to record Cameras with General, motion detection, intelligent, alarm and POS recording modes. 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					

C-
OW-**NIL**
I-

	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 Continuous, Alarm, Motion, Instant, Panic Recording Mode 21) It should support Resolution: 32MP; 24MP; 16MP; 12MP; 8MP; 5MP; 4MP; 1080p; 720p; D1; CIF; QCIF 22) 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 23) 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 24) It should have Web and GUI interface. 25) Built-In Artificial Intelligence: NVR should					

C-
OW-**NIL**
I-

	have built-in AI :- - 2 Channel face detection and recognition, - Minimum 4 Channel perimeter protection, - Minimum 8 Channel Smart Motion Detection 26) 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 and facility to add Name, gender, birthday, address, credential type, credential No., countries & regions and state to each face image. 27) Face & Human Attributes Search: Search Pictures/ Video by Gender, age group, glasses, expressions, face mask, beard, Top colour, top type, hat, bag, age, gender and umbrella. 28) ANPR Capability: It should support ANPR Camera with License plate, plate colour, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle registration location etc vehicle attributes. 29) 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 behaviour of fan, cyber security exception 30) Alarm Notification should be linked with Recording, snapshots, Camera external alarm					

C-
OW-**NIL**
I-

	output, buzzer, logs, presets and email. 31) 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. 32) Smart playback function: Should support smart search for the selected area in the video and smart playback to improve the playback efficiency 33) VCA (Video Content Analytic): Should support multiple video contented analytics based on camera analytics 34) Analytics by NVR: Perimeter protection and face recognition.					
12.1	32 Channel Network Video Recorder (NVR) having display split :- Main screen: 1/4/8/9/16/25/32(36), 2nd screen: 1/4/8/9/16	1.00	64784	Each	64784.00	40.11.1
13	Supplying, Installation, Testing and Commissioning following capacity Surveillance 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.					DSR 2025 – 40.12
13.1	8TB (Terabytes)	1.00	20119	Each	20119.00	40.12.1
14	Supplying Installation Testing Commissioning of Client PC System comprising of PC Hardware with minimum11th Gen Intel® I7 processor CPU E5-2640 x64 (or better), compatible with dual and quad core	1.00	90698	Each	90698.00	DSR 2025 – 42.2

C-
OW-**NIL**
I-

	processors minimum 3.1 Ghz and 8GB or higher RAM, Hard Drive Space of 256 GB SSD or better, Video card and monitor capable of 1920 x 1080 pixel resolution or better with Ethernet adapter (10/100/1000 Mbps with RJ-45 connector) with 2 GB or higher Graphics card suitable for BMS System complete etc. as required.					
15	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.					DSR 2025 – 42.4
15.1	42 inch or larger	1.00	51459	Each	51459.00	42.4.2
	Total Rs.				**1774251.00**	

Executive Engineer (E)
ACED, CPWD, Agartala

C-
OW-**NIL**
I-

Central Public Works Department

NIT/RFP No:- 48/EE(E)/AGT/CPWD/2026-27

Name of work:- SITC of CCTV cameras at AG office, Aizawl, Mizoram.

SCHEDULE OF QUANTITIES

Name of the Contractor / Company Name					
Sl. No.	**Name of component**	**Estimated cost**	**Percentage above or below the estimated cost**	**% in Figures**	**Total Cost**
1	SITC of CCTV cameras at AG office, Aizawl, Mizoram.	**1774251.00**	Select	0.00	-
	Grand Total	**1774251.00**			-

C-
OW-**NIL**
I-