



**भारत सरकार**

**GOVERNMENT OF INDIA**

**केंद्रीय लोक निर्माण विभाग**

**CENTRAL PUBLIC WORKS DEPARTMENT**

**NIT No. 22/EE(E)(PUDUCHERRY)/CPWD/2026-27**

**Name of work: Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.**

## **INDEX**

|                                                                                                                                      |    |
|--------------------------------------------------------------------------------------------------------------------------------------|----|
| INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e- TENDERING.....                                                                   | 2  |
| RECEIPT OF DEPOSITION OF ORIGINAL EMD.....                                                                                           | 6  |
| FORM 'G' NON- BLACKLISTED.....                                                                                                       | 7  |
| FORM "H" Letter of Transmittal.....                                                                                                  | 8  |
| FORM "I" DECLARATION ABOUT SITE INSPECTION.....                                                                                      | 9  |
| CPWD-6 FOR e-TENDERING.....                                                                                                          | 10 |
| CPWD-7/8.....                                                                                                                        | 16 |
| PROFORMA OF SCHEDULES FOR MAJOR COMPONENT (E&M).....                                                                                 | 18 |
| SECTION – I.....                                                                                                                     | 25 |
| BRIEF PARTICULARS OF THE PROJECT.....                                                                                                | 25 |
| SECTION – II.....                                                                                                                    | 26 |
| PARTICULAR SPECIFICATIONS AND SPECIAL CONDITIONS.....                                                                                | 26 |
| ADDITIONAL CONDITIONS FOR ELECTRICAL WORKS.....                                                                                      | 33 |
| A) WIRING SYSTEM.....                                                                                                                | 33 |
| B) LABELLING.....                                                                                                                    | 34 |
| C) ELECTRICAL PANELS.....                                                                                                            | 35 |
| D) SPLIT AIR CONDITIONERS.....                                                                                                       | 37 |
| E) LED LUMINARIES.....                                                                                                               | 38 |
| PROPOSAL TO BE SUBMITTED BY THE MAIN CONTRACTOR FOR ASSOCIATING ELIGIBLE AGENCY FOR SPECIALIZED COMPONENT(S) OF WORK (FORM 'N')..... | 40 |
| CONSENT LETTER OF ELIGIBLE ASSOCIATED AGENCY FOR SPECIALIZED COMPONENT(S) OF WORK (FORM 'P').....                                    | 41 |
| MEMORANDUM OF UNDERSTANDING (MOU) FOR ASSOCIATED CONTRACTOR (FORM 'Q').....                                                          | 42 |
| LIST OF PREFERRED MAKES.....                                                                                                         | 44 |
| SECTION – III.....                                                                                                                   | 46 |
| SCHEDULE OF QUANTITIES FOR E&M WORKS.....                                                                                            | 46 |
| FINANCIAL BID.....                                                                                                                   | 50 |

Certified that this NIT contains 51 pages only

**NIT approved for Rs.6,28,154/-**

**Executive Engineer (E)(Puducherry)**  
**CPWD, Puducherry - 605 006**

# **INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR TENDERING**

**e-**

The Executive Engineer (E)(Puducherry), CPWD, Puducherry - 605 006 on behalf of President of India invites online ~~Item-rate/percentage rate~~ bids from **CPWD enlisted contractors of appropriate class in building (composite) category**, for the following work(s):

*Table 1: Brief Particulars and Timelines*

|   |                                                                                                                                            |                                                                                                                                                                                  |
|---|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | NIT No.                                                                                                                                    | 22/EE(E)(PUDUCHERRY)/CPWD/2026-27                                                                                                                                                |
| 2 | Name of work & Location                                                                                                                    | Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room. |
| 3 | Estimated cost put to tender (In Rs.)                                                                                                      | Rs.6,28,154/-                                                                                                                                                                    |
| 4 | Earnest money (In Rs.)                                                                                                                     | Rs.12,563/-                                                                                                                                                                      |
| 5 | Stipulated period of completion of work                                                                                                    | 02 (Two) month                                                                                                                                                                   |
| 6 | Last date & time of submission of bid, copy of receipt for deposition of original EMD and other documents as specified in the bid document | 20/07/2026 up to 15.00 Hrs                                                                                                                                                       |
| 7 | Date & time of opening of tender.                                                                                                          | 20/07/2026 on 15.30 Hrs.                                                                                                                                                         |
| 8 | Special requirements                                                                                                                       | Nil                                                                                                                                                                              |

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he consider himself eligible and he 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 plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> or [www.cpwd.gov.in](http://www.cpwd.gov.in) free of cost.
4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds or Account Payee Demand draft or Banker's Cheque or Fixed Deposit Receipts or/and Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.
5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered/update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of <https://etender.cpwd.gov.in>.

6. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the eMsigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Pre Bid clarification may be e-mailed to [eee-cpwd.pon@nic.in](mailto:eee-cpwd.pon@nic.in) upto **15/07/2026** on at 15:00 Hrs to clear the doubts of intending bidders, if any.
10. Contractor must ensure to quote rate in the column (5) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

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

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

- I. Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
- II. Receipt for deposition of original EMD
- III. Enlistment Order of the Contractor.
- IV. Form "G" Valid Notarized Affidavit of 'Non-black listing by CPWD/State/Central Departments/PSU/Autonomous bodies' on non-judicial stamp paper worth Rs.100/- duly signed by the authorized person of agency / firm.
- V. Form "H" Letter of transmittal
- VI. Form "I" Declaration about site inspection as per prescribed format in NIT.
- VII. Certificate of ERP training as per CPWD O.M.DG/Enlist.Rules-2023/Misc./25 dated:15.03.2024.
- VIII. GST Registration Certificate, if already obtained by the bidder.  
If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents.  
*"If work is awarded to me, I/we shall obtain GST registration certificate as applicable, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard."*

**Executive Engineer (E)(Puducherry)**  
**CPWD, Puducherry - 605 006**

**GOVERNMENT OF INDIA**  
**CENTRAL PUBLIC WORKS DEPARTMENT**  
**OFFICE OF THE EXECUTIVE ENGINEER (ELECTRICAL)(PUDUCHERRY)**  
**NIRMAN BHAVAN, JIPMER CAMPUS, PUDUCHERRY – 605 006**  
**e-mail: [eee-cpwd.pon@nic.in](mailto:eee-cpwd.pon@nic.in)**

No. 69(1)/EE(E)(PDY)/2026-27/PB/493

Dated: 10/07/2026

**NOTICE INVITING e-TENDER**

The Executive Engineer (E)(Puducherry), CPWD, Puducherry - 605 006 on behalf of President of India invites online ~~Item-rate/percentage rate~~ bids from CPWD enlisted contractors of appropriate class in building (composite) category, for the following work(s):

*Table 1: Brief Particulars and Timelines*

|   |                                                                                                                                            |                                                                                                                                                                                  |
|---|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | NIT No.                                                                                                                                    | 22/EE(E)(PUDUCHERRY)/CPWD/2026-27                                                                                                                                                |
| 2 | Name of work & Location                                                                                                                    | Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room. |
| 3 | Estimated cost put to tender (In Rs.)                                                                                                      | Rs.6,28,154/-                                                                                                                                                                    |
| 4 | Earnest money (In Rs.)                                                                                                                     | Rs.12,563/-                                                                                                                                                                      |
| 5 | Stipulated period of completion of work                                                                                                    | 02 (Two) month                                                                                                                                                                   |
| 6 | Last date & time of submission of bid, copy of receipt for deposition of original EMD and other documents as specified in the bid document | 20/07/2026 Up to 15.00 Hrs                                                                                                                                                       |
| 7 | Date & time of opening of tender.                                                                                                          | 20/07/2026 on 15.30 Hrs.                                                                                                                                                         |
| 8 | Special requirements                                                                                                                       | Nil                                                                                                                                                                              |

The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> or [www.cpwd.gov.in](http://www.cpwd.gov.in) free of cost.

**Executive Engineer (E)(Puducherry)**  
**CPWD, Puducherry - 605 006**

**Copy for information to:**

1. The Project Co-ordinator, JIPMER, Puducherry – 605 006.
2. The Superintending Engineer (Puducherry), Nirman Bhavan, Puducherry – 605 006
3. The Executive Engineer (Puducherry), Nirman Bhavan, Puducherry – 605 006
4. Assistant Engineer (Electrical)-IV
5. Notice Board.

**Executive Engineer (E)(Puducherry)**

## **RECEIPT OF DEPOSITION OF ORIGINAL EMD**

(Receipt No ..... dated .....)

1. Name of Work : **Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.**
2. NIT No: **22/EE(E)(PUDUCHERRY)/CPWD/2026-27**
3. Estimated Cost: **Rs.6,28,154/-**
4. Amount of Earnest Money Deposit: **Rs.12,563/-**
5. Last date of submission of bid: **20/07/2026**

[To be filled by The EXECUTIVE ENGINEER receiving the EMD]

1. Name of Contractor:
2. Form Of EMD:
3. Amount of EMD:
4. Date of Submission of EMD:

Signature, Name and Designation of EMD  
receiving Officer along with Office Stamp

**FORM 'G' NON- BLACKLISTED**

**AFFIDAVIT**

**Name of work: Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.**

**NIT NO. 22/EE(E)(PUDUCHERRY)/CPWD/2026-27**

I/we undertake and confirm that our firm/partnership firm has not been blacklisted by any state/Central Departments/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such an information comes to the notice of the department then I/we shall be debarred for bidding in CPWD in future forever. Also, if such information comes to the notice of the department on any day before date of start of work, the Engineer-in-charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-

Signature of Bidder(s) or an authorized  
Officer of the firm with stamp

Date:

Signature of Notary with seal

## **FORM “H” Letter of Transmittal**

From,

.....  
.....

To,

The Executive Engineer (E) Puducherry),  
CPWD, Puducherry.

**Name of work: Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.**  
**NIT NO. 22/EE(E)(PUDUCHERRY)/CPWD/2026-27**

Sir,

Having examined the details”, given in tender notice and bid document for the above work, I/we hereby submit the bid along with all required information and documents.

1. I/We hereby certify that all the statement made and information supplied by me/us are true and correct and accompanying statement are true and correct.
2. I/We have furnished all information and details necessary for bid and have no further pertinent information to supply.
3. I/We also authorize Executive Engineer (E) (Puducherry), CPWD, Puducherry to approach individuals, employers, firms and corporation to verify our details, if required.
4. Certificate: It is certified that the information given by me/us in the bid are correct. It is also certified that I/ We shall be liable to be debarred, disqualified/ cancellation of enlistment in case any information furnished by me/us is found to be incorrect.

Name  
Mobile Number  
Email ID:  
Contact Address:

Name of Bidder:  
Contact Address:  
Email Id of Bidder:  
Mobile Number of Bidder(s) :

Signature(s) of Bidder(s)  
Seal of bidder

## **FORM “I” DECLARATION ABOUT SITE INSPECTION**

To,

The Executive Engineer (E) Puducherry),  
CPWD, Puducherry.

**Name of work: Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.**

**NIT NO. 22/EE(E)(PUDUCHERRY)/CPWD/2026-27**

Dear Sir,

It is hereby declared that as per CPWD-6 FOR e-BIDDING, I/ We the bidder inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site/ ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date.

I /We bidder shall be responsible for arranging and maintaining at 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 me/us implies that I / We have read this notice and all other contract documents and has made myself /ourselves aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

Yours faithfully

(Duly authorized signatory of the bidder)

**Note:** The details shall be scanned and uploaded online.

## **CPWD-6 FOR e-TENDERING**

- 1 ~~Item rate/percentage rate~~ tenders are invited on behalf of President of India from CPWD enlisted contractors of appropriate class in building (composite) category for the work of “ Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room. The enlistment of the contractors should be valid on the last date of submission of tenders.

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

- 1.1 The work is estimated to cost Rs.6,28,154/-. 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 tenders. He will also nominate Division which will deal with all matters relating to the invitation of tenders. 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:-~~

### **~~Criteria of eligibility for submission of tender documents~~**

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

~~For works estimated cost upto tendering limit of class -1 Building & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However, for Horticulture it may be modified as per bidding limit of CPWD class I contractors of Horticulture category).-~~

~~Three similar works each of value not less than Rs. \*\*\*/- or two similar work 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).-~~

### **~~Note:-~~**

~~For works costing above tendering limit of class -II Building & Roads (erstwhile Composite/Building/infrastructure) category Contractors but upto tendering limit of class-I 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 limit 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).~~

~~Three similar works each of value not less than Rs. \*\*\*/- or two similar work 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).~~

~~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 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](http://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) 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 tender documents.~~
- ~~4 (I) The site for the work is available.~~

**~~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 available~~

**~~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 <https://etender.cpwd.gov.in> or [www.cpwd.gov.in](http://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 tender 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 tender as notified.~~

~~8 When tenders 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 tender submitted earlier shall become invalid.~~

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

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

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

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

The bid submitted shall be opened at **15.30 Hrs on 20/07/2026.**

- 10 The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if: The bidder is found ineligible.
- (i) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
  - (ii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
  - (iii) 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 or Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule F, including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.
- 12 **The description of the work is as per SECTION - I, BRIEF PARTICULARS OF THE PROJECT.**

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 tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
- 14 Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders 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 tender and the tenderer shall be bound to perform the same at the rate quoted.
- 16 The contractor shall not be permitted to tender for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the Central Public Works Department or in the Ministry of 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 gazette 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 tender or engagement in the contractor's service.
- 18 The bid for the works shall remain open for acceptance for a period of **thirty (30) days from the date of opening of bids in case of single bid system and seventy five (75) days from the date of opening of technical bids in case bids are invited on 2 or 3 bid system further.**

If any tenderer withdraws his tender or make 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 rights 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.

If any tenderer withdraws his tender or make 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 rights 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.

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

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

- (i) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- (ii) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.

**Executive Engineer (E)(Puducherry)**  
**CPWD, Puducherry - 605 006**

## CPWD-7/8

### GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

#### **Percentage Rate Tender/~~Item Rate Tender~~ & Contract for Works**

(A) Tender for the work of:- Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.

(i) To be uploaded by 20/07/2026 up to 15.00 Hrs Executive Engineer (E) (Puducherry), CPWD, Puducherry - 605 006.

(ii) To be opened in presence of tenderers who may be present at 15.30 Hrs on 20/07/2026 in the office of Executive Engineer (E)(Puducherry), CPWD, Puducherry - 605 006.

#### **TENDER**

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

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

I/We agree to keep the tender open for thirty (30) days from the due date of its opening in case of single bid system/ ~~seventy five (75) from the date of opening of technical bid in case tenders are invited on 2/3 bid system for specialised work~~ and not to make any modification in its terms and conditions.

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

A copy of earnest money in receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money & 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 therefrom 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:**

**Witness:**

**Signature of Contractor**

**Postal Address**

**Address:**

**Occupation:**

#### **ACCEPTANCE**

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

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

(a)

(b)

(c)

**For & on behalf of President of India**

**Signature .....**

**Dated:**

**Designation:**

**Executive Engineer (E)(Puducherry)**

## **PROFORMA OF SCHEDULES FOR MAJOR COMPONENT (E&M)**

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)

### **SCHEDULE 'A'**

Schedule of quantities (as per PWD-3): **SECTION – III**

### **SCHEDULE 'D'**

Extra schedule for specific requirements/ document for the work, if any : **SECTION – II**

### **SCHEDULE 'E'**

Reference to General Conditions of contract. **GCC CONSTRUCTION WORKS 2023 as modified & corrected up to date.**

Name of Work: **Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.**

Estimated cost of work: **Rs. 6,28,154/-**

(i) Earnest money deposit: **Rs. 12,563/-**

(ii) Performance Guarantee: **(a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher).  
(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.**

(iii) Security Deposit: **2.5% of tendered value**

### **SCHEDULE 'F'**

#### **GENERAL RULES & DIRECTIONS:**

Officer inviting tender: **Executive Engineer (E)(Puducherry), CPWD**

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: **See below**

#### **Definitions:**

2(v) Engineer-in-Charge: **Executive Engineer (E)(Puducherry), CPWD**

- 2(viii) Accepting Authority: **Executive Engineer (E)(Puducherry), CPWD**
- 2(x) Percentage on cost of materials and Labour to cover all overheads and profits: **15%**
- 2(xi) Standard Schedule of Rates: **DSR 2023 + correction factor 0.973 (on account of GST difference) + CI  
DSR (E&M) 2025 + CI**
- 2(xii) Department: **CPWD**
- 9(ii) Standard CPWD Contract Form: **GCC CONSTRUCTION WORKS 2023, CPWD Form 7/8 as modified & corrected up to 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 there of from the date of issue of letter of acceptance **7 days**
- (ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above **3 days**

#### Clause 2

Authority for fixing compensation under clause 2: **Superintending Engineer (Puducherry), CPWD, Puducherry**

#### 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**

| Sl.No. | Description of Milestone (Physical) | Time allowed in days (from date of start) | Amount to be withheld in case of non achievement of mile stone |
|--------|-------------------------------------|-------------------------------------------|----------------------------------------------------------------|
|--------|-------------------------------------|-------------------------------------------|----------------------------------------------------------------|

|    |                                                                                            |         |                                         |
|----|--------------------------------------------------------------------------------------------|---------|-----------------------------------------|
| 1. | Association of agency for specialized works, if applicable.                                | 07 days | 1% of tendered value of E&M component   |
| 2. | Submission of GA drawings for approval for AC system & IEI etc                             | 15 days | 1% of tendered value of E&M component   |
| 3. | Supply of equipments for all IEI related works etc.                                        | 30 days | 1.5% of tendered value of E&M component |
| 4. | Completion of installation etc.                                                            | 55 days | 1% of tendered value of E&M component   |
| 5. | Testing, commissioning and handing over of all the installation including approvals if any | 60 days | 0.5% of tendered value of E&M component |

Time allowed for execution of work: 02 (Two) month

- (i) Authority to convey decision of shifting of milestone and extension of time: Executive Engineer (E)(Puducherry), CPWD
- (ii) Authority to decide rescheduling of milestone and extension of time: Superintending Engineer (Puducherry), CPWD, Puducherry
- (iii) Shifting of date of start in case of delay in handing over of site: Superintending Engineer (Puducherry), CPWD, Puducherry

Schedule of handing over of site:

| Part   | Portion of site                              | Description | Time Period for handing over reckoned from date of issue of letter of intent. |
|--------|----------------------------------------------|-------------|-------------------------------------------------------------------------------|
| Part A | Portion without any hindrance                | Entire Site | 10 Days                                                                       |
| Part B | Portions with encumbrances                   |             |                                                                               |
| Part C | Portions dependent on work of other agencies |             |                                                                               |

#### Clause 6

Computerised Measure Book (CMB) / Electronic Measurement Book (EMB)

- (i) Mode of measurement : CMB / EMB

#### Clause 7

Gross work to be done together Rs. 5,00,000/-

with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment:

#### Clause 7A

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

#### Clause 8

Competent Authorities to inspect and issue part/ final completion certificate **Executive Engineer (E)(Puducherry), CPWD**

#### Clause 8A

Compensation for non submission of completion plans: **Rs. 2,500/-**

Authority to decide compensation for non submission of completion plans: **Executive Engineer (E)(Puducherry), CPWD**

#### Clause 10A

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

1..... 2. .... 3.....  
4..... 5. .... 6.....

#### Clause 10B(ii)

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

#### Clause 10C (Applicable only in those contracts where 10CC is not applicable)

Component of labour expressed as percent of value of work: **10 %**

#### Clause 10CC (Not applicable)

A. For construction period

| Sl.No . | Relevant component of Material/ Labour for price escalation | Percentage of total value of work |
|---------|-------------------------------------------------------------|-----------------------------------|
|---------|-------------------------------------------------------------|-----------------------------------|

|    |                                                                                                |      |
|----|------------------------------------------------------------------------------------------------|------|
| 1. | Cement component                                                                               |      |
| 2. | Labour component                                                                               |      |
| 3. | Civil component of other construction materials                                                |      |
| 4. | E&M (Electrical and Mechanical) componenet of construction materials.                          |      |
| 5. | POL (Diesel) component                                                                         |      |
| 6. | Reinforcement steel bars/ TMT bars/ structural steels (including strands and cables) component |      |
| 7. | Bitumen component                                                                              |      |
|    | TOTAL                                                                                          | 100% |

**B. For maintenance period**

| Sl.No. | Relevant component of Material/ Labour for price escalation           | Percentage of total value of work |
|--------|-----------------------------------------------------------------------|-----------------------------------|
| 1.     | Labour component                                                      |                                   |
| 2.     | Civil component of other construction materials                       |                                   |
| 3.     | E&M (Electrical and Mechanical) componenet of construction materials. |                                   |
| 4.     | Bitumen component (For road work component)                           |                                   |
|        | TOTAL                                                                 | 100%                              |

**Clause 11**

Building information model (BIM)  
is applicable and BIM professional **No**  
to be deployed by contractor

Specifications to be followed for the execution of work: **As per following specifications as modified & corrected up to date.**

1. CPWD General Specifications for Electrical Works Part-I Internal – 2023.
2. CPWD General Specifications for Electrical Works Part-II External – 2023.
3. General Specifications for Heating, Ventilation & Air-Conditioning (HVAC) – 2024

## Clause 12

12.2. & 12.3                      Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for items of work                      100%

## Clause 16

Competent Authority for deciding reduced rates:                      Superintending Engineer (Puducherry), CPWD, Puducherry

## Clause 18

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

1..... 2. .... 3.....  
4..... 5. .... 6.....

## Clause 19C/ 19D/ 19G/ 19K

Authority to decide penalty for each default:                      Superintending Engineer (Puducherry), CPWD, Puducherry

## Clause 25

Conciliator:                      SDG - Chennai, CPWD, Chennai

Arbitrator Appointing Authority:                      Superintending Engineer (Puducherry), CPWD, Puducherry

Place of Arbitration                      Puducherry/ Chennai

## Clause 32

### *Requirement of Technical Representative(s) and recovery rate*

| Sl.No. | Minimum Qualification of Technical Representative | Discipline             | Designation (Principal Technical/ Technical Representative)   | Minimum Experience (Years) | Number | Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32 (i) |
|--------|---------------------------------------------------|------------------------|---------------------------------------------------------------|----------------------------|--------|--------------------------------------------------------------------------------------------------------------------|
| 1      | Graduate Engineer or Diploma Engineer             | Electrical/ Mechanical | Project Manager cum planning/ quality/ site/ billing Engineer | 2 or 5 respectively        | 1      | ₹15,000/- per month per person                                                                                     |

~~Assistant Engineers retired from government service who are holding Diploma will be treated at par with graduate engineers.~~

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

~~Minimum recovery for not deploying Building Information Model (BIM) professional shall be Rs. two lac per month or as mentioned above, whichever is higher.~~

#### Clause 38

- (i)(a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates .....  
printed by C.P.W.D. On the basis of Delhi Schedule of Rates 2023 printed by C.P.W.D.

(ii) Variations permissible on theoretical Quantities:

- (a) Cement  
For works with estimated cost put to tender not more than Rs. 25 lakh. 3% plus/minus.  
For works with estimated cost put to tender more than Rs.25 lakh. 2% plus/minus.
- (b) Bitumen All Works 2.5% plus only & nil on minus side.
- (c) Steel Reinforcement and structural steel sections for each diameter, section and category 2% plus/minus
- (d) All other materials. Nil

**Executive Engineer (E)(Puducherry)**  
**CPWD, Puducherry - 605 006**

## **SECTION – I**

### **BRIEF PARTICULARS OF THE PROJECT**

1. Salient details of the work for which bids are invited are as given below
2. The work is situated at OTM&CGOM, Puducherry.
3. General features and major components of the work are as under:
  - a) SITC of 3.0 TR, 5 Star BEE Rated Cassette Type Air Conditioner complete with Indoor unit, Outdoor unit and accessories.
  - b) Providing insulated copper refrigerant piping with fittings, insulation and testing etc (Beyond 5.5 m for each Unit)
  - c) Providing power & control cable between Indoor unit and Outdoor unit complete as required. (Beyond 5.5 m for each Unit)
  - d) Providing 25 mm dia PVC drain pipe with all accessories. (Beyond 5.5 m for each Unit)
  - e) Providing and fixing of heavy duty outdoor unit mounting stand.
  - f) Power outlets & Wiring for AC Units.
4. Work shall be executed according to General Conditions of Contract for Central P.W.D. Works available separately at printer's outlets.
5. The Address of the officers of the CPWD connected with this work are given below:
  - (i) Executive Engineer (E)(Puducherry)  
CPWD, Nirman Bhavan  
JIPMER Campus, Puducherry - 605 006
  - (ii) The Assistant Engineer (E) - IV  
CPWD, Nirman Bhavan  
JIPMER Campus, Puducherry - 605 006

## **SECTION – II**

### **PARTICULAR SPECIFICATIONS AND SPECIAL CONDITIONS**

#### **1. GENERAL**

- 1.1. The tenderer should in his own interest visit the sites and familiarise himself with the site conditions before tendering.
- 1.2. No T&P shall be issued by the department and nothing extra shall be paid on account of this.
- 1.3. Care shall be taken, while handling / installing / maintaining the equipment/ carrying out the work, to avoid damage to the building/ premises. The Contractor shall arrange to repair all damages to the building caused by him so as to bring to the original condition. He shall also arrange to remove all unwanted waste materials from site, arising out of his work.
- 1.4. The Contractor shall carry out the work in such a manner so as not to interfere or affect or disturb other works being executed by other agencies if any. No claim in the matter shall be entertained.

#### **2. RATES TAXES AND DUTIES:**

- 2.1. The work shall be treated as on works contract basis and the rates tendered shall be for complete items of works inclusive of all taxes (including works contract tax), duties, and levies etc. and all charges for items contingent to the work, such as packing, forwarding, insurance, freight and delivery, installation, testing, commissioning etc at site i/c temporary constructional storage, risk, overhead charges, general liabilities/ obligations etc.
- 2.2. Being an indivisible works contract, sales tax, octroi, excise duty etc. are not payable separately.
- 2.3. GST for the work shall be included within the quoted rates for the various items.
- 2.4. All statutory deductions like GST, Building and other construction workers welfare cess etc at applicable rates will be made from the Contractors bill.

#### **3. COMPLIANCE WITH REGULATIONS**

The work shall comply in all respects with this specification and:

- a) The Building Regulations applying to the project including requirements of the National Building Code 2016.
- b) Wiring rules and regulations including requirements of Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations 2023, National Electrical Code of India 2023, the local electricity supply authority and electrical inspectorate.
- c) Any other regulations that apply directly or indirectly to such installations in the location. Where conflict arise between this specification and any of the applicable acts, codes or standards the highest standard of materials and workmanship shall prevail.

- d) If the contractor proposes to supply finished goods procured directly or indirectly from vendors, from the countries sharing land border with India, such vendor will be required to be registered with the competent authority under Government of India. Such procurement shall be accepted only on furnishing the details of such registration.
- e) For materials to be used in work for which Government of India has notified minimum percentage of local content under, Public Procurement (Preference to Make in India) Order 2017 (Amended up to date), it shall be mandatory to supply materials meeting such stipulation.
- f) Prior to commencement of work, all applicable statutory clearances required for taking up the work shall be obtained by the contractor.
- g) After completion of the work, the completed installation shall be offered for inspection to inspectors of the relevant statutory authorities. The contractor shall prepare and submit necessary drawings, test certificates, other documents etc. for submission to these bodies. It shall be the responsibility of the contractor to liaison with/ coordinate with such inspecting authorities for obtaining the approval for the installation. The rectifications required by such statutory authorities shall be carried out by the contractor. Nothing extra shall be payable to the Contractor on this account. The installation shall be commissioned only after obtaining all applicable statutory clearances.
- h) It shall be the responsibility of the contractor to liaison with/ coordinate with the electricity supplier for availing power supply and energizing the installation.
- i) Statutory fees if any for obtaining statutory clearances/ availing power supply shall be paid by the contractor and the same shall be reimbursed on production of evidentiary proof to the department.

#### **4. TERMS OF PAYMENT**

- 4.1. Payment will be made against completion of specific stages of work. The percentage of contract rates payable against various stages of work is given below.

##### **a) For Internal Electrical Installations:**

| <b>S.N.</b> | <b>Stage of Work</b>                                           | <b>Payment terms in %</b> |
|-------------|----------------------------------------------------------------|---------------------------|
| 1           | Supplying and laying/fixing of conduit, switch boxes, DBs etc. | 40%                       |
| 2           | On completion of wiring                                        | 50%                       |
| 3           | Supply of fans & fittings                                      | 70%                       |
| 4           | Installation of equipment, earthing etc                        | 85%                       |
| 5           | Testing & commissioning                                        | 95%                       |
| 6           | Handing Over                                                   | 100%                      |

b) For other E&M packages:

| S.N | Item of work                                       | On initial inspection of materials and delivery at site in good condition on pro-rata basis | On completion of pro-rata installation | On completion of testing and commissioning | After obtaining statutory clearances, trial run, training and handing over |
|-----|----------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------------------------------------|
| 1   | Cassette type split AC units & related accessories | 65                                                                                          | 20                                     | 10                                         | 5                                                                          |

4.2. No claim for payment shall accrue to the contractor for incomplete stages.

4.3. The department may at its discretion, allow part payments on written request from the contractor, on account of compelling reasons to be brought on record. In such event, the part rates assessed by the engineer-in-charge will be final and binding.

5. **ASSOCIATION OF OTHER AGENCY(S) FOR EXECUTION OF SPECIALIZED E&M WORKS BY THE BUILDING CATEGORY CONTRACTOR:**

5.1. If the agency is not possessing a valid electrical license of appropriate class in his name, he shall associate with another agency registered with CPWD in the appropriate class possessing such license for the execution of all electrical works.

5.2. The building contractor shall associate with other agency(s) for execution of each of the work(s) listed hereunder, who fulfills the following eligibility criteria:

| SI. No. | COMPONENT OF E&M WORKS                 | ESTIMATED COST(Rs.) | ELIGIBILITY                                                                                                                                                                                                                                                                                                                                                                              |
|---------|----------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I       | Providing cassette type split AC units | Rs. 6,28,154 /-     | <p>Similar works each of value not less than 40% of the estimated cost put to tender.</p> <p><b>OR</b></p> <p>Two similar works each of value not less than 60% of the estimated cost put to tender.</p> <p><b>OR</b></p> <p>One similar work of value not less than 80% of the estimated cost put to tender.</p> <p>Similar work shall mean "SITC of Cassette type split AC system"</p> |

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.

5.3. The building category contractor may carry out himself/herself any or all of the works without associating any specialized agency provided:

a) He fulfills the prescribed eligibility criteria respectively for these work(s).

OR

b) He directly procures the equipment of approved make from manufacturer and gets it installed from authorized agency/service provider of the manufacturer or specialized agency as per criteria mentioned in the NIT.

5.4. The building contractor and the associated specialized agencies shall submit to the Engineer-in-charge required affidavit to confirm their association.

## 6. ADDITIONAL CONDITIONS AND TECHNICAL SPECIFICATIONS

6.1. The work shall be generally carried out in accordance with tender specifications and the following specifications/ rules amended upto date:

- Description of Schedule of Quantities
- Additional conditions and technical specifications for this work.
- Drawings for this work.
- CPWD General Specifications for Electrical Works.
- National Electrical Code of India 2023.
- National Building Code 2016.

- g) Relevant IS Codes.
  - h) IEC/ ASHRAE/ SMACNA/ ITU/ TIA/ AVIXA standards.
- 6.2. The contractor shall, on demand by the engineer-in-charge, furnish proof to the satisfaction of the engineer-in-charge regarding purchase of materials and equipment from the manufacturer/ manufacturer's authorized outlets.
- 6.3. Materials to be used in work are to be ISI marked where available. Prior approval of the engineer-in-charge shall be taken for all the materials required to be used on works. Non-standard quality materials will not be accepted. The engineer-in-charge reserves the right to instruct the contractor to remove any material which, in his opinion, is not acceptable and the same shall be removed from the site of work by the contractor at his cost.
- 6.4. All materials used in work shall be supplied with manufacturers test certificates. Samples will be drawn from the supplied materials as per acceptance criterion specified in relevant codes and the same will be got tested through approved third party testing laboratories. The contractor shall make all necessary arrangements and bear all costs towards testing of samples including preparation of samples, packaging, sealing, transportation, loading, unloading, etc. No additional payment will be admissible towards this.
- 6.5. Materials shall be brought to site only after taking correct measurements as per actual requirement of work. Excess quantity will not be accepted or paid. Only quantity of materials brought to site and used in work as per actual requirement shall be measured and paid irrespective of quantity mentioned in BOQ/ work schedule. The items brought to site and paid, if not used in the project have to be taken back by the contractor and deductions in the payment shall be made in subsequent bills. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.
- 6.6. The materials of construction used for various items of work shall be suitable for the environment and intended use of the component. Following general guidelines shall be followed.
- a) Equipment & wiring enclosures, raceways etc used indoor shall be with epoxy powder coated/ hot dipped galvanized finish.
  - b) Support structures, fasteners, raceways etc used outdoor shall be of hot dipped galvanized steel or stainless steel.
  - c) Paint finish for pipelines used outdoor shall be two coats of epoxy primer with two coats of PU finish. Paint finish for pipelines used indoor shall be two coats of zinc chromate primer with two coats of enamel over coat.
  - d) Only UV stabilised SMC/ die-cast aluminium/ GI powder coated enclosures with minimum ingress protection of IP65 may be used outdoor.
- 6.7. Agency shall prepare layouts, plans, sections, GA drawings, method statements etc based on the scope of work in consideration with BOQ, inventory etc for various items of work and submit the same to the Engineer-in Charge for approval. No work shall be initiated without getting shop drawings and work method statement approved by the Engineer-in-Charge. Work shall be executed only as per the approved shop drawings and

work method statement.

- 6.8. Bad workmanship will not be accepted. Such work is liable for rejection and shall be rectified by the contractor at his own cost as per the specifications and directions given by the engineer-in-charge.
- 6.9. All repairs and patch works shall be neatly carried out to match with the original finish and to the full satisfaction of the engineer-in-charge.
- 6.10. On completion of the installation, the contractor shall arrange for conducting pre-commissioning tests as required by the applicable codes. A report of such tests shall be compiled and submitted to the engineer-in-charge for his approval. Such tests shall commence only on the approval of this report by the engineer-in-charge and shall be carried out by those authorized, skilled, experienced and certified permit holders of the supervisor category.
- 6.11. The contractor has to make his own arrangement for stores and watch and ward and no extra claim for this will be entertained.
- 6.12. The contractor has to make his own arrangement at his own cost for all the general and special T&P required on this work.
- 6.13. The contractor has to make his own arrangement for power supply required for execution of the work.
- 6.14. The contractor has to make his own arrangement for water supply required for execution of the work.
- 6.15. All the debris due to the works shall be removed from the site by the contractor as soon as the work is completed.
- 6.16. The materials used in the work shall be of approved make as per **LIST OF PREFERRED MAKES**.
- 6.17. Defect Liability Period: All equipments shall be guaranteed for a period of **12 Months** from the date of completion. Any defective materials and equipment shall be replaced free of cost at the direction of the Engineer-in-Charge during this period. In case it is felt by the department that undue delay is being caused by the contractor in carrying out these works, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.
- 6.18. Five year OEM warranty/ Warranty from Authorised Dealer certified by OEM from the date of commissioning shall be availed by the contractor for all LED fittings used in the work. A letter/ undertaking from the OEM shall be submitted in support of this. If this condition is not fulfilled by the contractor, 5% of the cost of LED fittings will be forfeited from the final bill/ from the security deposit deducted for the total work and balance amount only will be refunded after completion of defect liability period.
- 6.19. Printed labels shall be stuck in the rear side of the every LED fitting including emergency. The printed labels shall include the details of date of supply, date of warranty, Name and contact details of Authorised dealer, Authorization certificate number and warranty date as in the warranty certificate above from OEM/Authorised dealer. Non-compliance of the same will be counted as non-submission of warranty certificate and will attract penalty @5% of the quoted rate for the fitting. Compliance report in this regard duly signed by the concerned JE/AE shall be submitted along with every bill.

- 6.20. The emergency LED fittings shall be warranted for 5 years. The battery shall be warranted for 2 years. In case of failure within the warranted period, replacement shall be provided. If this condition is not fulfilled by the contractor, 5% of the cost of LED fittings will be forfeited from the final bill/ from the security deposit deducted for the total work and balance amount only will be refunded after completion of defect liability period.
- 6.21. Additional conditions and technical specifications for various components of work to be executed are given in the following sections.

**Executive Engineer (E)(Puducherry)**  
**CPWD, Puducherry - 605 006**

## ADDITIONAL CONDITIONS FOR ELECTRICAL WORKS

### A) WIRING SYSTEM

1. Recessed/ slab wiring shall be done using medium class PVC conduits (except for fire alarm wiring & data cabling for which specifications for open wiring may be followed).
2. Open wiring shall be done using GI conduits.
  - 2.1. Surface conduits shall be supported using spacer bar saddles.
  - 2.2. Suspended conduit runs shall be supported using GI strut channel support system. Final connections to equipments from rigid wiring shall be made using GI flexible conduits.
  - 2.3. All sections of metallic conduits shall be effectively bonded to the earthing system.
3. Perforated/ ladder/ wire mesh cable trays may be used for horizontal and vertical distribution of cables.
  - 3.1. Cable trays shall be hot dipped galvanized including all connection/ support accessories.
  - 3.2. All cable tray systems shall be complete with factory made bends, tees, reducers etc and other accessories like connectors, earth clamps, support channels & suspenders, stainless steel cable ties etc.
4. Wiring system shall be complete with all necessary clamps, glands, lugs, connectors, labeling ferrules etc. When different systems of wiring are combined in a single feeder/ circuit, the transition shall be made using suitable glands/ adapters. Nothing extra is payable on this account.
5. All flexible copper wires used shall have Class 2 copper conductor satisfying the resistance requirements of NEC 2023 Part 1 Section 17, Annex B.
6. All flexible copper wires used shall be with FR-LSH PVC insulation.
7. Wherever light fittings/ fire detectors/ response indicators are proposed to be provided on the false ceiling, the respective wiring shall be brought upto the terminal of the light light fittings/ fire detectors/ response indicators. Flexible metal conduits properly glanded to junction boxes shall be used for drawing wires from junctions on ceiling to fittings on false ceiling and nothing extra shall be paid to the contractor for the same.
8. Power cables run under ground with protection shall be laid direct in ground with protection tiles as per IS 5820.
9. Entry of cables into the building shall be through suitable sleeves which shall be sealed after the drawing of cables using waterproof sealing compound/ foam. Nothing extra is payable on this account.

## **B) LABELLING**

### **1. GENERAL**

- 1.1. Labelling scheme including sample labels for various equipments forming part of the installation shall be prepared by the contractor and submitted to the engineer-in-charge for his approval. Labelling activities may be taken up only on the approval of this plan by the engineer-in-charge.

### **2. CABLES**

- 2.1. All cables shall be labelled showing the fed from/ fed to locations, size of cable and number of runs.
- 2.2. Stamped/ engraved aluminium labels may be used for labelling outdoor enclosures.
- 2.3. Engraved acrylic sheets may be used for labelling indoor enclosures.
- 2.4. Labels shall be connected to the cable/ conduit/ bunched wires using black nylon straps.
- 2.5. Fed to labels shall be used near feeding end.
- 2.6. Fed from label shall be used near fed end.
- 2.7. Both labels shall be used at intermediate locations inside man holes, across openings in walls etc.

### **3. PANELS**

- 3.1. All panels shall be provided with labels on the front indicating the switch gear designation, feeding cable size & runs and destination.
- 3.2. Engraved PVC labels may be used for switch gear designation.
- 3.3. Painting may be used for remaining labelling.

### **4. DISTRIBUTION BOARDS**

- 4.1. All DBs shall be provided with labels indicating the fed to location of loads & circuit sizes, fed from location & feeder size.
- 4.2. The DB labelling sheets must be computer printed in suitable size paper, laminated and pasted to the inside of the DB door using suitable industrial adhesive.

### **5. SWITCH BOARDS**

- 5.1. All switch boards shall be provided with 9mm acid proof labels indicating the DB and circuit designation.
- 5.2. All circuits shall be provided with ferrules on both sides including all loops indicating the circuit, loop and DB designations.

### **6. WARNING LABELS**

- 6.1. Approved acid proof graphic labels shall be provided at the following locations.
  - a) Near lightning down conductor locations indicating minimum distance of 3m to be maintained in the event of lightning.
  - b) In front of panels and DBs warning to keep the area in front of the panel/ DB clear for 1m.
  - a) In front of panel incomers warning of the presence of multiple sources of power for panels fed from multiple feeders.
  - c) Near earthing points of enclosures and earth buses warning against disconnection of safety earth.

## **C) ELECTRICAL PANELS**

### **1. GENERAL CONSTRUCTIONAL FEATURES**

- 1.1. Panels shall be:
  - a) Compartmentalized as per Form 4a construction.
  - b) Dust and vermin proof construction with minimum IP42 ingress protection for indoor panels and IP54 ingress protection for outdoor panels.
  - c) Extendable on both sides.
- 1.2. Panel boards which are free floor standing should be erected on suitable M.S. channels across cable trench if the cable entry to the panel is from bottom and ready made cable trenches exist. Panels should be erected on a M.S. angle iron frame if ready made cable trenches do not exist and if the cable entry to the panel is from the bottom. All mountings in flooring / wall etc should be using anchor fasteners and G.I. hardware.
- 1.3. No equipment needing manual operation shall be located less than 250 mm above floor level. Operating levers, handles etc of highest unit shall not be higher than 1700mm.
- 1.4. Cable alleys shall be provided with suitable hinged doors. Adequate number of slotted cable support arms shall be provided for supporting the cables.
- 1.5. Metallic partitions shall be provided between adjacent cubicles, between feeder compartments, between busbar chambers and other compartments.
- 1.6. Panel shall be divided into suitable sections for convenience during shipment.
- 1.7. All doors shall be folded type. All covers and doors may be provided with neoprene gaskets and quarter turn metallic locks (triangular/ square).
- 1.8. Provision shall be made for shrouding the outgoing terminals for protection against accidental touch. All exposed live parts shall be totally covered by shrouds. If spreader bars are required, they shall be separated by phase barriers.
- 1.9. Wherever more than one cable has to be terminated on any incoming/ outgoing feeder the respective incoming/ outgoing terminals has to be designed in such way as to receive the required number of cables.
- 1.10. Bus bars and cable alleys shall be shrouded with FRP sheet for all connections to neighbouring bays.
- 1.11. Cable entry shall be provided on top and bottom as per site requirement. All gland plates shall be made out of 3mm thick galvanised iron sheet and bonded to the earth bar using flexible/ braided copper cable with cross section equal to the earth bus.

### **2. SHEET METAL WORK**

- 2.1. The panel board shall be fabricated using suitable mild steel structural sections or pressed and shaped cold rolled sheet steel of thickness not less than 2 mm. Stiffeners shall be provided wherever necessary.
- 2.2. All panel edges and door edges shall be reinforced against distortion by rolling, bending or by the addition of welded reinforced members. Cut-outs shall be true in shape and devoid of

sharp edges. The complete structure shall be rigid, self-supporting and free from vibration, twists and bends.

**3. PAINTING**

- 3.1. All sheet steel work shall be phosphated with applicable standards. All metal works shall be chemically treated with 7 tank process for degreasing, derusting, phosphating and applied with two coats of Epoxy powder coating.

**4. BUSBARS**

- 4.1. Bus bars shall be of sufficient cross-section so that a current density of 130A/sq.cm is not exceeded at nominal current rating for aluminium bus bars, and 160A/sq.cm for copper bus bars.
- 4.2. The panel shall be provided with three phase and neutral busbar. Busbar shall be of uniform cross section throughout the length of the bus bar section.
- 4.3. All bus bar and bus-taps shall be insulated with color coded heat shrinkable PVC insulation sleeves.
- 4.4. Busbar shall be adequately supported and braced to withstand the stresses due to the specified short circuit currents. Busbar supports shall be made of fibre reinforced moulded plastic material, or cast resin.

**5. CONTROL WIRING**

- 5.1. The control wiring shall be carried out in single core 1.1 KV grade PVC insulated control cables with stranded copper conductors of minimum cross section 1.5 sq.mm (2.5 sq.mm for CT wiring).
- 5.2. Runs of control wires within the switch-board shall be neatly bunched and suitably supported/ clamped. Ferrules shall be provided for easy identification of the control wires.
- 5.3. Control wiring shall correspond to the circuits/ sequence of operations and interlocks agreed to with the Engineer-in-Charge.
- 5.4. Not more than two connections shall be made at any one terminal
- 5.5. The wiring shall be arranged and supported in such a manner that there will be no strain on termination.

**6. LABELLING**

- 6.1. All panels shall be provided with labels on the front indicating the switch gear designation, feeding cable size & runs and destination.
- 6.2. Engraved PVC labels may be used for switch gear designation.
- 6.3. Painting may be used for remaining labeling.

**7. EARTHING/ BONDING**

- 7.1. Panel shall be provided with a set of inter connected earth bus bar running along the entire length of the board at top (where cable entry is from the top) and bottom. At either end of the earth bus, one clamp type terminal with nuts, bolts and washers shall be provided for bolting the earthing conductor.
- 7.2. The earth bus shall be of tinned copper and with minimum cross section equal to half the cross section of the phase bus bar (size may be reduced by 60% for panels with aluminium bus bars).
- 7.3. Earth bus bars shall be supported at suitable intervals. Positive connection between all the metal frames of equipment mounted in the switchboard and earth bus bar shall be provided.

- 7.4. All instrument cases shall be connected to the earth using 1100V grade, single core 2.5 sq.mm stranded, copper conductor cable.
- 7.5. All non current carrying metal hinged doors shall be bonded to the panel using 1100V grade, single core 2.5 sq.mm stranded, copper conductor cable.
- 7.6. All shielded cables used inside panels shall be bonded at both ends to the metallic case/ DIN rails using suitable bonding clamps.
8. **TESTING**
  - 8.1. All panels shall be offered for inspection at the factory. All defects and deviations pointed out in the inspection report shall be rectified at the factory before dispatch to site. However, the Engineer-in-Charge may exercise discretion for waiving factory inspection in lieu of proper test certificates.
  - 8.2. Panel shall be subjected to following tests as per relevant standards:
    - a) Mechanical Operational tests for all movable parts of switch gears, breakers, tripping devices etc.
    - b) Testing of interlocks, control circuit operation including timing and sequencing.
    - c) Insulation resistance test.
    - d) Over voltage withstand test.

## **D) SPLIT AIR CONDITIONERS**

### **1. DESIGN & SPECIFICATIONS**

Air conditioners shall be suitable for 240V, 50 Hz single phase AC supply, capable of performing the functions of cooling, dehumidifying, air circulation and filtering. Overall power factor of the unit shall be >0.9 at all operating conditions. Automatic temperature control should be provided for a temperature range of 18°C to 30°C with temperature differential lower than  $\pm 1^\circ\text{C}$ . Removable and washable filter pads shall be provided for filtration of air passing through the unit. Remote control (Cordless) with LCD Display shall be provided with one On/Off timer, selecting Fan speed (Three speeds) and setting of temperature.

The air conditioners shall be fitted with discharge cooled variable speed rotary compressor unit operating on refrigerant R32 with suitable rated electric motor. It shall be equipped with overload protection. These shall be mounted on vibration isolation mountings for quiet operation. The compressor shall conform to IS: 10617 as amended upto date.

Evaporator and condenser shall be with copper refrigerant tubes and aluminium fins with corrosion protection.

### **2. PIPING, INSULATION AND CABLES**

- 2.1. Suction line copper pipe of 0.70mm thickness.
- 2.2. Liquid line copper pipe of 0.70mm thickness.
- 2.3. Expanded polyethylene foam insulation tubing for suction line copper pipe (with GC cloth covering for outdoor installation).

2.4. Drain pipe (15mm dia. flexible PVC pipe).

2.5. 3 core PVC insulated copper wire 2.5 sq.mm to electrically connect indoor and outdoor units with each other.

**3. INSTALLATION**

The installation shall be done through authorised dealers only. The installation at site shall comprise of the following:

3.1. Mounting/Fitting indoor & outdoor units at the respective locations.

3.2. Laying refrigerant piping of standard length and connecting both the units after drilling hole/holes in the wall, if required.

3.3. Insulating the suction pipe with expanded polyethylene foam tubing.

3.4. Laying 15mm drain pipe to throw out the condensate water being formed in the indoor unit.

3.5. Leak testing the entire system.

3.6. Charging refrigerant gas in the unit after maintaining vacuum.

3.7. Suitable electric wiring between indoor and outdoor units is included in the scope of supply.

**4. SERVICING**

Free servicing shall be provided by the manufactures/ authorised agent for 12 months from the date of installation of air conditioner. Firm is also required to send service engineer at least 3 times during the warranty period and also attend all breakdown calls during the warranty period within the prices quoted.

**5. WARRANTY**

Compressor shall have minimum 5 year manufacturer warranty.

**E) LED LUMINARIES**

1. ANSI/IES LM79, ANSI/IES LM-80 & ANSI/IES TM-21 test reports, IES file and datasheets shall be submitted for all luminaries. Only test reports conducted in NABL accredited laboratories will be accepted.

2. All Luminaries supplied shall have serial numbers or batch code.

3. Luminaries shall be ISI marked as per IS 10322 and conform to IS 16101 to 16108 amended upto date.

4. LEDs shall be of the following makes only – Cree, Nitchia, Osram, Philips, Bridgelux, Lumileds or manufactured by the OEM in the list of approved makes.

5. Luminaire efficacy of not less than the following

5.1. Panel light, Downlighter, Streetlights: 120 lumen/watt

5.2. Batten, Industrial fittings, Flood light: 100 lumen/watt.

5.3. Other: 80 lumen/watt

6. Minimum Color rendering index (Ra) should be

- 6.1. 70 for streetlights, flood lights, industrial lights and outdoor lights.
- 6.2. 80 for all indoor lights.
- 7. Correlated Color Temperature (CCT) shall be 5700 K unless otherwise mentioned.
- 8. The L70B50 life of LED package as per TM-21 report shall be not less than 50,000 Hrs.
- 9. Light fittings used for outdoor and industrial use shall have minimum IP65 ingress protection, IK08 mechanical impact protection and 4 kV surge protection.
- 10. OEM accessories and supports shall be used for mounting and suspending luminaries.

**PROPOSAL TO BE SUBMITTED BY THE MAIN CONTRACTOR FOR ASSOCIATING ELIGIBLE AGENCY FOR  
SPECIALIZED COMPONENT(S) OF WORK (FORM 'N')**

Name of work: To be filled by the contractor

I/we hereby propose the following agency as mentioned against each for executing the following works. Their consent letters are also attached.

| Sl.<br>No. | Name of Associated agency | Valid work experience for<br>Eligibility | Consent Letter<br>Attached (Yes/No) |
|------------|---------------------------|------------------------------------------|-------------------------------------|
|            |                           |                                          |                                     |
|            |                           |                                          |                                     |
|            |                           |                                          |                                     |

Signature of Agencies

A)

B)

**CONSENT LETTER OF ELIGIBLE ASSOCIATED AGENCY FOR SPECIALIZED COMPONENT(S) OF WORK  
(FORM 'P')**

Name of work: To be filled by the contractor

I / We hereby give my consent to associate with M/s ....., for  
executing the specialized component of work of .....  
..... (Mention category).

I / We will execute the work as per specifications and conditions of the agreement and  
as per directions of the Engineer-in-Charge for the corresponding specialized  
component till the completion of the work.

I / We will be responsible for necessary action to handover the installations and for  
rectification of defects and repair during the maintenance / warranty period.

Also I / We will employ full time technically qualified Engineer / supervisor for the  
specialized component of the work as required for the work. I / We will attend  
inspection of officers of the department as and when required.

Date:

Signature with date of Main Contractor      Signature with date of Associated agency

Address

Address

Witness with address

Witness with address

**(From Main contractor side)**

**(From associated agency side)**

**MEMORANDUM OF UNDERSTANDING (MOU) FOR ASSOCIATED CONTRACTOR  
(FORM 'Q')**

*(To be submitted individually for each package of work for which main agency is not having the prescribed eligibility as per NIT)*

*(On Non Judicial Stamp Paper of Rs.100)*

M/s. (Name of the firm with full address) .....  
(Henceforth called the Main Contractor)

And

M/s. (Name of the firm with full address) .....  
(Henceforth, called the Associated Contractor)

Name of work: **Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.**

NIT No: **22/EE(E)(PUDUCHERRY)/CPWD/2026-27**

This Memorandum of Understanding (MOU) is made at .....  
on ..... **Between** ..... (herewith called  
the main contractor) having its registered office at ..... which expression  
shall unless repugnant to the subject or context include its administrators, successors  
and assigns.

and

..... (herewith called the  
Associated contractor) having its registered office at ..... which expression  
shall unless repugnant to the subject or context include its administrators, successors  
and assigns.

Whereas the main contractor has agreed to entrust the ..... (NAME OF  
THE PACKAGE) only to the associated contractor.

We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of this agreement for execution of the ..... (NAME OF THE PACKAGE) only in respect of above work. Both of us shall be responsible for the execution of ..... (NAME OF THE PACKAGE) as per the agreement to the extent this MoU allows. In case of any delay in the payment by the main contractor, the associated contractor can apply to the CPWD to release the payment under Clause 7B and deduct the same from the bills of the main contractor. In case of any dispute, either of us will go for mediation by the CE or SE (as the case may be) and his decision shall be final and binding on both of us.

We have further agreed as under:

1. The Associated Contactor will execute ..... (NAME OF THE PACKAGE) works as per terms and conditions of this agreement.
2. All the machinery and equipment, tools and tackles required for execution of the ..... (NAME OF THE PACKAGE) works, as per this MoU, shall be the responsibility of the Associated Contractor.
3. The site staff required for the execution of ..... (NAME OF THE PACKAGE) work shall be arranged by the Associated Contractor as per terms and conditions of this MoU.
4. All the correspondence regarding execution of the ..... (NAME OF THE PACKAGE) work shall be done by the department with the main contractor. In case of non-compliance of the provisions of agreement of the work by the associated contractor, the main contractor shall be held responsible and action will be taken against him as per agreement provisions.
5. In case of non-performance, associated contractor will be debarred from participation or association in the CPWD tenders by the CPWD.

(Authorized Signatory)  
SIGNATURE OF THE MAIN CONTRACTOR  
Date : .....  
Place : .....  
1. Witness with address  
(From main contractor side)

(Authorized Signatory)  
SIGNATURE OF ASSOCIATED CONTRACTOR Date  
: .....  
Place : .....  
1. Witness with address  
(From associated contractor side)

## LIST OF PREFERRED MAKES

1. A list of preferred brand names of various materials/products are shown below for usage in execution of work. However, in case it is established that the brands specified below are not available in the market, equivalent material of any other specialized companies/firms may also be used, subject to approval of the alternate brand by the Engineer in Charge.
2. For materials to be used in work for which there is sufficient local capacity and competition as per notification issued by Government of India under Public Procurement (Preference to Make in India) Order 2017 (Amended up to date); in case it is established that the brands specified below are not manufactured in India, equivalent materials from Class I/ Class II local suppliers under PPP-MII order can be used subject to approval of the alternate brand by the Engineer in Charge and furnishing of declaration under PPP-MII order for such suppliers. However the supplied product shall comply with all the technical specifications and terms and conditions stipulated in the tender document.
3. It must be ensured, in general, that all materials to be used in the works shall bear BIS certification mark. In cases where for a particular material/product, BIS certification mark is not available, then the material proposed to be procured can be used subject to the condition that it should conform to CPWD Specifications and relevant BIS codes. In such cases written approval of the Engineer-in-Charge shall be obtained before use of such material in their works.
4. The list given below does not absolve the executing agency from their responsibility for using quality products. It is only after, they are satisfied about the quality and performance, the products shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.

*Table 2: List of preferred makes for E&M works*

| Sl.No | Name of the Product                                                 | Makes                                                      |
|-------|---------------------------------------------------------------------|------------------------------------------------------------|
| 1     | PVC insulated copper conductor FRLS cable (FRLS Type with ISI mark) | Finolex/ Havells/ Polycab/ KEI                             |
| 2     | XLPE UG Aluminium/ Copper LT Cable                                  | Gloster/ Havells/ Universal/ Finolex/ KEI/RPG/ Polycab     |
| 3     | PVC conduit pipes & accessories (ISI Marked)                        | Avonplast/ AKG/ Precision/ Modi/ Sudhakar/ GM              |
| 4     | Metallic conduit pipes & accessories (ISI Marked)                   | AKG/ BEC/ Gupta/ NIC/ Javeri/ Precision                    |
| 5     | uPVC cable management system/ cable trunking                        | Legrand/ MK/ OBO-Betterman/ Schneider                      |
| 6     | MS & GI Pipes including accessories, Angles, Channels and Beams     | Jindal/ TATA/ Zenith Birla                                 |
| 7     | Cable trays                                                         | RMCON/ Profab Engineer/ MBM/ OBO Betterman/ Legrand/niedax |

| <b>Sl.No</b> | <b>Name of the Product</b>                                       | <b>Makes</b>                                                                                                                          |
|--------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 8            | Modular Switches & Sockets, Fan Regulator, RJ-45 Data Socket     | Legrand-Myrius-Arteror/ MK-Elements-Logic Plus/ Schneider-Opale-Livia/ Crabtree-Athena                                                |
| 9            | Isolators/ MCB/ RCB0/ MCB DB, Industrial Sockets and accessories | Legrand/ Siemens/ Schneider/ Hager                                                                                                    |
| 10           | Fire extinguishers (ISI marked)                                  | Cease Fire/ Omex/ Safex/ Minimax                                                                                                      |
| 11           | 5 Star rating Inverter split AC / Cassette AC / Window AC        | Voltas/ Bluestar / Daikin/ Hitachi/ O- General / LG / Mitubishi Electric                                                              |
| 12           | Copper pipe                                                      | Jindal Refrigeration/ hindustan Copper/ Rajco/ Tota line// Mexflow/ Godrej/ Mehta/ Mandev/ Nippon                                     |
| 13           | Nitrile Rubber/ Foam Insulation                                  | Kflex/ Armaflex/ Aeroflex/ A flex/ K flex/ Insu flex/ UP Twiga/ Lloyd Insulation/ Supreme Industries/ Owens Corning/ Paramount/ Kinco |
| 14           | uPVC pipe                                                        | Ashriwad/ Finolex/ Surya/ Jindal/ Apollo/ Astral/ Prakesh/ Prince/ Sudukhar/ Supreme/ Press Fit                                       |
| 15           | Mineral Wool                                                     | Rockwool/ Twiga                                                                                                                       |
| 16           | Steel Sheet                                                      | Tata/ Sail/ Jindal                                                                                                                    |

**Executive Engineer (E)(Puducherry)**  
**CPWD, Puducherry - 605 006**

### SECTION – III

#### SCHEDULE OF QUANTITIES FOR E&M WORKS

**Name of Work:**Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room.

| S.No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit | Qty | Rate | Amount | Remarks          |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|------------------|
|       | <b>STREET LIGHT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |                  |
| 1     | Supplying, Installation, Testing and Commissioning of Air Cooled Cassette type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), R-32/R410A/R-407 Green Refrigerant, wireless Remote, inbuilt drain pump, suitable for 400/230V, 50 Hz ,1 /3 phase AC supply, including surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 5.5 Mtr (IDU to ODU), copper power and control cable upto 5.5 Mtr (IDU to ODU) including drain pipe, the system shall be capable of performing cooling, dehumidification, Air circulation, filtration & ventilation of following capacity with Scroll/rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB) as specified. |      |     |      |        | DSR 2025<br>32.4 |
|       | The system shall be able to deliver 100% of the rated capacity as per relevant IS Code. The lab testing reports as per IS: 1391 shall be submitted from National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited as per International Electrotechnical Commission (IEC) 17025 standards/Central Power Research Institute (CPRI)/ Electrical Research and Development Association (ERDA)with Original Equipment Manufacturer (OEM) etc. complete as per CPWD                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |                  |

| S.No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit | Qty | Rate   | Amount | Remarks           |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|--------|--------|-------------------|
|       | specification and as per IS: 1391 as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |        |        |                   |
|       | Inverter Type- Cooling only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |     |        |        |                   |
| 1.1   | 3.0 TR with 5 Star BEE Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Each | 4   | 123684 | 494736 | 32.4.4            |
| 2     | Supplying, Installation, testing and commissioning including vacuumization and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-0 tubular insulation/with Class-0 closed cell elastometric nitrile rubber tubular sleeves sections of 19 mm thick insulation as given below for Suction and Liquid lines, all accessories as per specifications etc. as required : (Beyond 5.5 metre from the indoor unit) |      |     |        |        | DSR 2025<br>31.14 |
| 2.1   | <b>6.4 mm dia (OD) (Soft drawn) with insulation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mtrs | 5   | 256    | 1280   | 31.1.1            |
| 2.2   | 9.5 mm dia (OD) (Soft drawn) with insulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mtrs | 10  | 346    | 3460   | 31.1.2            |
| 2.3   | 12.7 mm dia (OD) (Soft drawn) with insulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mtrs | 10  | 487    | 4870   | 31.1.3            |
| 2.4   | 15.86 mm dia (OD) (Soft drawn) with insulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mtrs | 10  | 615    | 6150   | 31.1.4            |
| 2.5   | 19 mm dia (OD) (Hard drawn) with insulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mtrs | 10  | 739    | 7390   | 31.1.5            |
| 2.6   | 22.2 mm dia (OD) (Hard drawn) with insulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mtrs | 10  | 904    | 9040   | 31.1.             |
| 3     | Supplying & laying of Suitable 3/4 core, 2.5/4 sq.mm PVC insulated copper cable for power and control wiring etc as required. (Beyond 5.5 metre from the indoor unit)                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mtrs | 60  | 377    | 22620  | MR                |

| S.No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit | Qty | Rate | Amount | Remarks            |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|--------------------|
| 4     | Supplying and fixing of 25 mm dia PVC water line pipe for additional drain pipe from AC indoor unit to outside in surface/recess including all accessories etc. as required. (Beyond 5.5 metre from the indoor unit)                                                                                                                                                                                                                                                                                                                                                                                                 | Mtrs | 50  | 168  | 8400   | DSR 2025<br>1.21.2 |
| 5     | Providing, fabricating, supplying and fixing heavy duty wall/floor mounted MS stand for supporting outdoor unit of 3.0 TR cassette type air conditioner, fabricated from suitable size MS angle/channel/rectangular hollow section, complete with MS base plate, gusset/stiffener plates, anchor fasteners, nuts, bolts, washers, anti-vibration rubber pads, welding, cutting, drilling, two coats of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved shade, capable of safely supporting the outdoor unit under all operating conditions, complete in all respects as required. | Each | 4   | 5215 | 20860  | MR                 |
| 6     | Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.                                                                                                                                                                                                                                                                                                                                                                                                          |      |     |      |        | DSR 2025<br>1.14   |
| 6.1   | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mtr  | 80  | 482  | 38560  | 1.14.4             |
| 7     | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |      |        | DSR 2025<br>1.21   |
| 7.1   | 25 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mtrs | 45  | 168  | 7560   | 1.21.2             |
| 8     | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.                                                                                                                                                                                                                                                                                                                                                                 | Each | 4   | 807  | 3228   | DSR 2025<br>1.57   |

| S.No.                                                                                    | Description | Unit | Qty | Rate      | Amount        | Remarks |
|------------------------------------------------------------------------------------------|-------------|------|-----|-----------|---------------|---------|
|                                                                                          |             |      |     | Total Rs. | 6,28,154.00   |         |
|                                                                                          |             |      |     | Say Rs.   | ₹ 6,28,154.00 |         |
| Rs.6,28,154/- ( Rupees Six lakhs Twenty Eight Thousand One Hundred and Fifty Four Only ) |             |      |     |           |               |         |

Executive Engineer (E)(Puducherry)  
CPWD, Puducherry - 605 006

## FINANCIAL BID

| SCHEDULE OF QUANTITIES<br>FINANCIAL BID- PERCENTAGE RATE TENDER                                                                                                                                |                                                                                                                                                                                                                                   |                      |                                              |                       |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------|-----------------------|------------|
| NIT No. 22/EE(E)(PUDUCHERRY)/CPWD/2026-27                                                                                                                                                      |                                                                                                                                                                                                                                   |                      |                                              |                       |            |
| Name of Work: Construction of OTM Accommodation and CGOM at 1.24 Acres of Land for Coast Guard at Puducherry. SH: Providing Cassette Type Airconditioning unit for DIG Room & Conference Room. |                                                                                                                                                                                                                                   |                      |                                              |                       |            |
| Name of the Contractor                                                                                                                                                                         |                                                                                                                                                                                                                                   |                      |                                              |                       |            |
| Sl.No                                                                                                                                                                                          | Name of component                                                                                                                                                                                                                 | Estimated cost (Rs.) | Percentage Above or Below the Estimated cost | Percentage in Figures | Total Cost |
| 1                                                                                                                                                                                              | 2                                                                                                                                                                                                                                 | 3                    | 4                                            | 5                     | 6          |
| 1                                                                                                                                                                                              | For items as per schedule of quantities for E&M works                                                                                                                                                                             | 6,28,154/-           |                                              |                       |            |
|                                                                                                                                                                                                | Grand Total                                                                                                                                                                                                                       |                      |                                              |                       |            |
|                                                                                                                                                                                                |                                                                                                                                                                                                                                   |                      |                                              |                       |            |
|                                                                                                                                                                                                | IMPORTANT NOTE:                                                                                                                                                                                                                   |                      |                                              |                       |            |
| 1                                                                                                                                                                                              | The Column No. 4 is mandatory and is to be filled by the bidders. If this column is left blank, the bid becomes invalid.                                                                                                          |                      |                                              |                       |            |
| 2                                                                                                                                                                                              | The amount in figures in Column No. 6 shall appear automatically corresponding to the percentage quoted in Column No. 5.                                                                                                          |                      |                                              |                       |            |
| 3                                                                                                                                                                                              | The bidder needs to quote the percentage only above or below or at par ECPT to cover the rate of all the items under the respective package.                                                                                      |                      |                                              |                       |            |
| 4                                                                                                                                                                                              | The percentage shall be quoted (written) upto 2 (two) places of decimal only.                                                                                                                                                     |                      |                                              |                       |            |
| 5                                                                                                                                                                                              | If the percentage selection in Column No. 4 is "At par", by default the percentage will be considered as "Zero" only.                                                                                                             |                      |                                              |                       |            |
| 6                                                                                                                                                                                              | The amount for the payment of each item will be worked out as quantity executed & measured for that item multiplied by estimated rate of that particular item Plus or Minus tender percentage accepted for corresponding package. |                      |                                              |                       |            |
|                                                                                                                                                                                                |                                                                                                                                                                                                                                   |                      | CONTRACTOR                                   |                       |            |

BLANK