

Hkkjr ljdkj
 dk;ky; dk; ikyd vfhk;Ur%o-%
 fnYyh o[r eMy&71]d-yk-fu-fo-]
 vkb-,vkj-vkb] i l k dEi l]
 ub fnYyh-110012
 VyhQku 21520120
 bey&deleee-ded71@cpwd.gov.in



Govt. of India
 O/o. Executive Engineer (E)
 DED-71, CPWD, IARI,
 Pusa Campus,
 New Delhi-110012
 Telephone 21520120
 Email- deleee-ded71@cpwd.gov.in

NOTICE INVITING e-TENDER

NIT No: 107/ 2026-27/ DED-71 /3

Name of work :- ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)

Estimated cost: - **Rs 34,35,779/-**

INDEX

S. No.	Description of Item	Page No.
1	Information and Instructions for Contractors for E-Tendering Forming Part of NIT	1-3
2	SPECIAL CONDITIONS FOR ASSOCIATION OF SPECIALIZED AGENCIES	4-10
3	Receipt of deposition of EMD	11
4	CPWD-6	12-19
5	Form A Affidavit	20
6	CPWD-7	21-29
7	Terms & Conditions	30-47
8	Schedule Of Quantities	48-55
9	Price Bid	56

Certified that this e - NIT contains 1 to 56 Pages only.

Assistant Engineer (E) (P)

Executive Engineer (E)
 DED-71, CPWD, Pusa,
 New Delhi.

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF BID DOCUMENT

The Executive Engineer (E), Delhi Electrical Division-71, CPWD, Pusa, New Delhi (Ph : 01125846515, email id: ded71.cpwd@gmail.com) on behalf of the President of India invites online percentage rate bids from approved and eligible contractors of CPWD and those of appropriate list of Registered contractor in CPWD in appropriate class of Buildings & Roads category in single bid system for the following work:-

S. No.	NIT No.	Name of work & Location	Estimated cost put to bid	Earnest Money	Stipulated period of completion of work (in months)	Last date of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document.	Date & Time of opening of bid
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	107/2025-26/DED-71/3	ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)	Rs.34,35,779/-	Rs.68,716/- (In favour of Executive Engineer (E), Electrical Division-XI, CPWD)	12 Months	08-10-2026 Up to 15:00 Hours	08-10-2026 at 15:30 Hours

- The successful bidder (to be called as Main Contractor) shall have to associate specialized agency(s) for execution of the following specialized work(s) as per eligibility criteria defined in SPECIAL CONDITIONS FOR ASSOCIATION OF SPECIALIZED AGENCIES.
 - Fire Fighting & Fire Alarm System**
 - Operation of Lift**
 - Operation of DG Set**
 - Comprehensive maintenance of Kirloskar make DG Set**
 - Comprehensive maintenance of Escon make lift**
- The Intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- Information and instructions for bidder posted on website shall form of bid document.

- 4) 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 free of cost.
- 5) 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, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of **Executive Engineer (E), ED-XI**, CPWD, New Delhi as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.
- 6) 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>.
- 7) 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 bidders should download and install the eMSigner on their system as per instruction available on download section of <https://etender.cpwd.gov.in>
- 8) On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- 9) Contractor can upload documents in the form of JPG format and PDF format.
- 10) Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue.

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

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 MANDATORY DOCUMENTS TO BE SCANNED AND UPLOADED WITHIN THE PERIOD OF BID SUBMISSION:

1. Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
2. Copy of receipt for deposition of original EMD issued from Division office of any Executive Engineer, CPWD (In Enclosed Performa).
3. Copy of Enlistment Order of the Contractor of the Buildings & Roads category in CPWD/Consent letter submitted to the enlisting authority for conversion of existing category into composite category.
4. 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 undertaking along with other 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 a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.
5. Copy of Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate contractor having valid electrical license of appropriate class.
6. An affidavit on Rs. 100 stamp paper duly attested by notary as reqd. to that I/we have not been debarred/suspended for tendering in CPWD till the last date of submission of bid. **(Not earlier than six months from the date of opening of Notice Inviting Tender).**
7. Copy of ERP Training Certificate
8. Copy of Permanent Account No. (PAN).
9. Email & mobile no. of the firm/ agency on the letter head of firm/ agency (For making correspondence)

SPECIAL CONDITIONS FOR ASSOCIATION OF SPECIALIZED AGENCIES

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

S. No	Component of E&M works	Estimated cost	Eligibility criteria
a)	Fire Fighting & Fire Alarm System	Rs. 5,53,722/-	The main contractor should engage an experienced firm who satisfies the eligibility criteria of having successfully completed work of similar nature of "Operation & maintenance of Fire Fighting & Fire Alarm System" (1) Three similar workeach of value not less than 40% of the estimated cost of this subhead of work or (2) Two similar workeach of value not less than 60 % of the estimated cost of this subhead of work or (3) One similar work each of value not less than 80% of the estimated cost ofthis subhead work.
b)	Operation of Lift	Rs. 4,31,040/-	The main contractor should engage an experienced firm who satisfies the eligibility criteria of having successfully completed work of similar nature of "Operation of Lift " (1) Three similar workeach of value not less than 40% of the estimated cost of this subhead of work or (2) Two similar workeach of value not less than 60 % of the estimated cost of this subhead of work or (3) One similar work each of value not less than 80% of the estimated cost ofthis subhead work.

c)	Operation of DG Set	Rs. 4,31,040 /-	The main contractor should engage an experienced firm who satisfies the eligibility criteria of having successfully completed work of similar nature of "Operation of DG Set with capacity of individual DG set not less than 75 KVA (1) Three similar workeach of value not less than 40% of the estimated cost of this subhead of work or (2) Two similar workeach of value not less than 60 % of the estimated cost of this subhead of work or (3) One similar work each of value not less than 80% of the estimated cost ofthis subhead work.
----	---------------------	-----------------	---

Note:- (1) The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7 % per annum; calculated from the date of completion to previous day of last date of submission of tenders.

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

2. Also the main contractor shall have to associate any the manufacturer / Authorized Service agencies only for execution of each of the specialized work(s) as mentioned below:-

a) Comprehensive maintenance of Kirloskar make DG Set

The main contractor shall have to associate the manufacturer / Authorized Service agencies of "Kirloskar make DG Sets".

b) Comprehensive maintenance of Escon make Lift

The main contractor shall have to associate the manufacturer / Authorized Service agencies of "Escon make Lift".

3. However, the composite category contractor shall also be eligible to carry out himself /herself any or all of the above specialized works mentioned at Sl. No. 1 a) to 1 c) only without associating any specialized agency provided :-

i. The main agency fulfills the prescribed eligibility criteria respectievely for the above specialized work(s).

4. The main contractor shall have to submit documents of proposed associated specialized agencies (for Sl.No. 1 a) to 1 c) such as (i) self attested copies of Certificates of Work Experience/Completion certified by an officer not below the rank of Executive Engineer/Project Manager or equivalent, clearly indicating... a) Name of work, b) Scope of Work, c) Agreement No., d) Estimated Cost, e) Tendered Cost, f) Final Value of Work Done, g) Date of Start, h) Stipulated date of Completion, i)

Actual date of completion, j) Nature of the Work etc. (In case some of above said details are not mentioned in the Completion certificate, the firm shall attach sample proof in support of above details), (ii). self attested copy of valid Electrical contractor license (if applicable), (iii) GST registration for approval of the department as per eligibility requirement mentioned in above along with the performance guarantee after the acceptance of tender.

5. The main contractor shall have to submit documents of proposed manufacturer / Authorized Service agencies (for Sl.No. 2 a) & 2 b) such as (i) self attested copies of manufacturer / Certificates of authorized service agencies (ii) GST registration (iii) copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC for approval of the department as per eligibility requirement mentioned in above along with the performance guarantee after the acceptance of tender.
6. Original consent letter of such selected associated specialized agencies for association shall also be enclosed in the prescribed format as per FORM-X. alongwith documents mentioned at sl.no-4 & 5.
7. If the main contractor fails to submit all the documents of the proposed associated specialized agencies as mentioned at Sr No. 4,5 & 6 above, along with the performance guarantee after the acceptance of tender otherwise department may reject tender of the contractor & may forfeit the deposited EMD absolutely & debar the contractor from re-tendering for this work”
8. After approval of associated specialized agencies by Engineer-in-charge, the main contractor will submit MOU signed with the associated specialized agency as per FORM-Y in shape of affidavit on stamp paper duly attested by notary in original within 7 (Seven) Days after issue of approval letter (for associate specialized agency). The MOU shall be signed by both the parties” i.e. main contractor as 1st party and associated specialized Agency as 2nd party, independently for all specialized work(s).
9. All technical discussions during currency of the contract, shall be attended by the associated specialized agencies and the main contractor. Commercial/Technical submissions for the specialized work(s) shall be signed and submitted by the associate specialized agencies along with the main contractor.
10. The associated specialized agencies and the main contractor shall attend the site during inspection of the work by the Engineer-in-Charge or higher authority.
11. The main contractor shall be entirely responsible and answerable for all the works done by his associated specialized agency regarding their quality, adherence to the laid down specification, terms and conditions, warranty/guarantee etc as per the agreement and he shall be liable to bear any compensation that may be levied by the department under any of the clauses of the agreement.
12. In the event of the concerned Associated specialized Agency not performing satisfactorily or failure to complete the specialized works(s), the main contractor on written directions of the Engineer-in-charge, shall remove the Associated specialized Agency deployed on the work and shall submit name of new associated Specialized Agency as per eligibility criteria mentioned in the NIT to execute the left over specialized work(s) without any loss of time after completion of all formalities mentioned as above in Sl. No. 1, 2,4,5 & 6.

Also if main contractor wants to change the associated specialized agency during the currency of the contract he shall submit name of new associated Specialized Agency per eligibility criteria

mentioned in the NIT to execute the left over specialized work(s) after completion of all formalities mentioned as above in Sl. No. 1, 2,4,5 & 6.

13. The main contractor shall be responsible and liable for proper and complete execution of the all works including specialized work(s) and ensure coordination and completion of all associated specialized agencies.
14. Running payment for the work shall be made to the main contractor. In case main contractor fails to make the payment to the associated specialized agency(s) by him within 15 days of receipt of each running account payment then on the written complaint of any associated specialized agency(s) for such work, Engineer-in-Charge shall serve the show cause to main contractor and after considering the reply of the same he may make the payment directly to the concerned associated specialized agency(s) for the work as per the terms & conditions of the agreement/M.O.U. drawn between main contractor and associated specialized agency fixed by him, if reply of main contractor either not received or found unsatisfactory. Such payment made to the associated specialized agency(s) shall be recovered by Engineer-in-Charge from the next RA/final bill due to main contractor as the case may be.

Form -X**CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF SPECIALIZED WORK(S)
OR MANUFACTURER / AUTHORIZED SERVICE AGENCIES**

Name of work : ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)

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

Date:

Signature with date of Main Agency/Contractor

Signature with date of Associate
Specialized Agency or manufacturer / Authorized
Service agencies

Address

Address

1. Witness with address

(From main contractor side)

2. Witness with address

(From associated agency side)

Form-Y**MEMORANDUM OF UNDERSTANDING [M.O.U] BETWEEN**

1] M/S [Name of the firm/agency with full address]

Enlistment Status

Valid Upto:

[Henceforth called the main contractor]

And

2]M/S [Name of the firm/agency with full address]

Enlistment Status

Valid Upto:

[Henceforth, called Associated specializedAgency]

For the execution of Specialized Component of Work(s):.....

.....of main work
 “ ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block,
 Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)”
 as per schedule, specifications, terms and conditions of the agreement.

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act [amended upto date] and the department [CPWD] can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the EE (E), DED-71, CPWD Pusa, New Delhi. Any of us may appeal against the mediation to the SE,DC-VII, CPWD, IARI Pusa, New Delhi. His decision shall be final and binding on both of us.

We have agreed as under:

1] The associated specialized agency or manufacturer / Authorized Service agencies will execute all specialized work(s) in the wholesome manner as per terms and conditions of the agreement and as per the direction of the Engineer-in-charge.

2] That the Associated specialized agency or manufacturer / Authorized Service agencies has gone through the contract and has understood the scope of work required for the purpose of executing the specialized work(s).

3] All the machinery and equipments, tools and plants, special T&P required for execution of the specialized work(s), as per agreement, shall be the responsibility of the associated specialized agency or manufacturer / Authorized Service agencies.

4] The site staff required for the specialized work(s) shall be arranged by the associated specialized agency or manufacturer / Authorized Service agencies as per terms and conditions of the agreement.

5] Site order book maintained for the said work shall be signed by the authorized representative of main contractor as well as Associated specialized Agency or manufacturer / Authorized Service agencies.

6] All the correspondence regarding execution of the specialized work(s) shall be done by the Department with the Associated specialized agency or manufacturer / Authorized Service agencies with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated agency or & manufacturer / Authorized Service agencies shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR

SIGNATURE OF ASSOCIATED SPECIALIZED AGENCY
OR MANUFACTURER / AUTHORIZED SERVICE AGENCIES.

Date:

Date

Place

Place

RECEIPT OF DEPOSITION OF EMD

(Receipt No..... Date.....)

1. **Name of work** : **ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)**
2. **NIT No** : **107/2026-27/DED-71/3**
3. **Estimated Cost** : **Rs. 34,35,779/-**
4. **Amount of Earnest Money Deposit** : **Rs. 68,716/-**
5. **Name of Payee** : **Executive Engineer (E), Electrical Division-XI, CPWD**
6. **Last date and time of submission of bids** : **08-10-2026 upto 15:00 Hrs.**

(To be filled by the receiving officer)

1. **Name of the Contractor** :
2. **Form of EMD** :
3. **Amount of EMD** :
4. **Date of Submission of EMD** :
5. **Name & Address of the EMD receiving office** :

**Signature, Name & Designation of EMD Receiving officer
(EE/AE(P)/AE/AAO) along with office Stamp**

Hkkjr ljdkj
 dk;ky; dk; ikyd vfhk;rk%o%
 fnYyh o|r eMy&71]d-yk-fu-fo]
 vkb-,vkb-vkb] i l k dEi l]
 ub fnYyh-110012
 VyhQku 21520120
 bey&deleee-ded71@cpwd.gov.in



Govt. of India
 O/o. Executive Engineer (E)
 DED-71, CPWD, IARI,
 Pusa Campus,
 New Delhi-110012
 Telephone 21520120
 Email- deleee-ded71@cpwd.gov.in

No : 54 (NIT) / AB / DED-71/2026-27/

Date :-

CPWD-6 NOTICE

The Executive Engineer (E), DED-71, CPWD, IARI Pusa, New Delhi on behalf of the president of India invites online percentage rate bid from approved and eohligible contractors of CPWD and those of appropriate list of Registered contractors in CPWD in appropriate class of Buildings & Roads category in **single bid** system. Last date and time of submission of price bid **08.10.2026** at 15:00 Hrs. and date of opening of price bid 08.10.2026 at 15:30 Hrs.

S.N o	NIT No/ Name of work	Estimate Cost	Earnest Money Deposit	Period of Completi on
1.	107/2026-27/DED-71/3 ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)	Rs. 34,35,779/-	Rs. 68,715/-	12 Months

The details of bid are available on “<https://etender.cpwd.gov.in>.”

Assistant Engineer (E) P

dk; ikyd vfhk;rk %o0%
 fnYyh o|r eMy&71]d-yk-fu-fo
 i l k ub fnYyh&12

ifrfyfi if'krh

- 1- v/kh{k.k vfhk;rk] fnYyh ifjeMy&7]vkb0ih0Hkou] ub fnYyh dk lpuFkA
- 2- dk; ikyd vfhk;rk] fuek.k eMy&4] d-yk-fu-fo] i l k u0 fn0&12A
- 3- The Executive Engineer, PVMD, CPWD, Pushpa Bhawan New Delhi for information.
- 4- Igk;d vfhk;rk %o0%&1/11/111 & 1v] fnYyh o|r eMy& 71] d-yk-fu-fo] ub fnYyh
- 5- ;kt uk 'kk[-kk] fnYyh o|r eMy&71] d-yk-fu-fo] i l k u0 fn0&12A
- 6- ukVI ckm
- 7- jldfm;k] fnYyh o|r eMy&71]d-yk-fu-fo] i l k u0 fn0&12A

dk; ikyd vfhk;rk %o0%

ANNEXURE- 21
(Refer SOP No 4/8 & 4/9)
CPWD-6 FOR E- TENDERING

1. ~~Item rate/Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of CPWD and those of appropriate list of~~ **Registered contractor in CPWD in appropriate class of Buildings & Roads category** ~~in single bid system and those of appropriate list of M.E,S, BSNL, Railways and State P.W.D. (B&R) or State Govt.'s Department (Strike out as the case may be) dealing with building and roads, if there is no state PWD (B&R) for the work of ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)~~

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

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

- 1-1 The work is estimated to cost Rs. 34,35,779/- This estimate, however, is given merely as a rough guide.
- 1-1-1 ~~The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.~~
- 1-2 ~~Intending bidder 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 bid documents

- ~~12-1 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 -I Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class -I contractors of Horticulture category). (i) Three similar works each of value not less than Rs..... or two similar works each of value not less than Rs..... or one similar work of value not less than Rs..... (all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited. (ii) For EPC tender under Mode -I/II only (Applicable for CPWD enlisted contractors of appropriate class also). One completed work costing not less than Rs. executed with the structural system technology as proposed by bidder in the letter of transmittal during the last 7 years ending last day of the month previous to~~

the one in which tenders are invited. This work can be part of eligible work at 1.2.1 (i) above or as a separate work.

Note :-

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

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

~~For works estimated to cost above the tendering 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). (i) Three similar works each of value not less than Rs..... or two similar works each of value not less than Rs..... or one similar work of value not less than Rs..... (all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited. (ii) For EPC tender under Mode I/II only (Applicable for CPWD enlisted contractors of appropriate class also). One completed work costing not less than Rsexecuted with the structural system technology as proposed by bidder in letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.2 (i) above or as a separate work. 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 the last date of submission of bid. This is applicable for 1.2.1 as well as 1.2.2 (Para 1.2.1(i) and Para 1.2.2(i) are not applicable for CPWD enlisted contractors of appropriate class. Para 1.2.1(ii) and Para 1.2.2(ii) are also applicable for CPWD enlisted contractors of appropriate class).~~

~~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. 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 12 Months from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
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~~
5. 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. 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](https://etender.cpwd.gov.in) or www.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of **Executive Engineer (E), ED-XI, CPWD**) 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 of any Commercial bank having validity for a period of 90 days for single bid works and 180 days for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system, earnest

money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

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

The bid submitted shall be opened at 15:30 Hrs. on 08-10-2026.

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee @ **5% of the Estimated Cost put to tender (ECPT) or Contract Amount whichever is higher and additional PG as per DG/Manual/2024/20, Dated:-27/02/2026** as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form.. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the subcontractors, 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 follows: ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services). 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 bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system and ~~75 (seventy five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system~~. Further (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not. (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not. (iii) In case of forfeiture of earnest money as prescribed in para (i)

and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

19. This notice inviting Bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:- (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto. (b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.
20. ~~For Composite Bids~~
 - 20.1.1 ~~The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.~~
 - 20.1.2 ~~The bid document will include following three components:~~
 - ~~Part A:- CPWD-6, CPWD-7/8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2014 as amended/ modified up to~~
 - ~~Part B:- General / specific conditions, specifications and schedule of quantities applicable to major component of the work.~~
 - ~~Part C:- Schedule A to F for minor component of the work (competent authority under clause 2 and clause 5 shall be same authority as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.~~
 - 20.1.3 ~~The bidders must associate himself, with agencies as per NIT conditions.~~ 20.1.4 ~~The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.~~
 - 20.1.5 ~~After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE incharge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH incharge of minor components. One such signed set of agreement shall be handed over to EE/DDH incharge of minor component(s). EE of major component will operate Part A and Part B of the agreement. EE/DDH incharge of minor component(s) shall operate Part C alongwith Part A of the agreement.~~
 - 20.1.6 ~~Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.~~
 - 20.1.7 ~~Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.~~
 - 20.1.8 ~~The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-Charge of relevant component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-Charge of relevant component(s).~~
 - 20.1.9 ~~In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-inCharge of relevant specialized component(s). The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-Charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.~~

- 20.1.10 The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE-in-charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.
- 20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-Charge of the discipline of minor component directly to the main contractor. The CMB shall be maintained independently by Engineer-in-Charge of major and minor components.
- 20.1.12A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-Charge of major component after record of completion certificate of all other components.
- 20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.
21. ~~Integrity Pact: The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender equal or more than the threshold value given in Schedule-F. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.~~
22. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer(Phone no *01125846515, e- mail Id *ded71.cpwd@gmail.com) or ERP helpline no. 18001803286 or e-mail Id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest. *To be filled in by NIT approving authority.

FORM-A

AFFIDAVIT

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 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 department on any day before date of start of work, the Engineer-in-charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

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**

Signature of Notary with seal and date

CPWD-7	CPWD
--------	------

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE : DELHI
BRANCH: E&M

DIVISION :DED-71
CIRCLE : DC-7

Percentage Rate Tender & Contract for Work

Tender for the work of:- ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)

- (i) To be uploaded at [www. https://etender.cpwd.gov.in](https://etender.cpwd.gov.in) by 15:00 Hrs. on 08-10-2026
- (ii) To be opened in presence of tenderers who may be present at 15:30 Hrs on 08-10-2026 in the office of The Executive Engineer (E),DED-71, CPWD, IARI Pusa, New Delhi.

TENDER

I/We have read and examined the notice inviting tender, schedule, A,B,C,D,E & F Specifications applicable, Drawings & Designs, General rules and Directions, Conditions of Contract 2023 (Maintenance Works) with amendments up to the last date of submission of tenders, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

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

We agree to keep the tender open for thirty **(30)** days from the due date of opening of bid and not to make any modifications in its term & conditions.

A sum of Rs. 68,716/- is hereby forwarded in cash/receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money.

A copy of earnest money in receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled 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 or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

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

Address: #

Occupation:#

To be filled in by the contractor

Signature of Contractor #

Postal Address #

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an 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

PROFORMA OF SCHEDULES**SCHEDULE 'A'**

Schedule of quantities

Attached**SCHEDULE 'D'**

Extra schedule for specific requirements /document for the work, if any - As per sheets Attached.

SCHEDULE 'E'

Reference to General Conditions of contract:- General Conditions of Contract 2023 (Maintenance works) for CPWD as amended/modified upto last date of submission of bid

Name of Work	ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)
Estimated cost of work	Rs. 34,35,779/-
i) Earnest Money (To be returned after receiving Performance Guarantee)	Rs. 68,716/-
ii) Performance Guarantee	5% of the Estimated Cost put to tender (ECPT) or Contract Amount whichever is higher and additional PG as per DG/Manual/2024/20, Dated:-27/02/2026
iii) Security Deposit	2.5% of tendered value

SCHEDULE 'F'

(GENERAL RULES & DIRECTIONS) : Officer inviting tender: EE(E), DED-71, CPWD, Pusa, New Delhi.

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3: **See below**

Definitions:

2(v)	Engineer-in-Charge	EE(E), DED-71 CPWD, Pusa, New Delhi
2(viii)	Accepting Authority	EE(E), DED-71 CPWD, Pusa, New Delhi

2(x)	Percentage on cost of materials and Labour coverall to overheads and profits	15%
2(xi)	Standard Schedule of Rates	DSR E&M 2025 with amendments and up to date corrections, Market rate, Minimum wages as per Govt. of Delhi or Central Government.
2(xii)	Department	Central Public works Department (CPWD)
9(ii)	Standard CPWD Contract Form GCC 2023, CPWD Form 7/8 as modified & corrected upto	GCC 2023 (Maintenane Work) for CPWD works as amended/ modified up to submission of the tender.

Clause 1

(iv)	Time allowed for submission of Performance Guarantee, programme chart (Time and progress) and applicable labour license, registration with EPFO, ESIC and BOCW welfare board or proof of applying thereof from the date of issue of letter of acceptance	7 Days
(v)	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

(i)	Authority for fixing compensation under clause 2	SE,DC-VII, CPWD,IARI Pusa, New Delhi.
-----	--	---------------------------------------

Clause 2A

(i)	Whether clause 2A shall be applicable	No
-----	---------------------------------------	----

Clause 5

(i)	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 Mile Stone (Physical)	Time Allowed in days (From date of Start)	Amount to be with-held in case of non achievement of milestone
Nil			

Time allowed for execution of work:

12 Months

Authority to decide:

(i)	Extension of time:-	EE(E), DED-71, CPWD, Pusa, New Delhi.
(ii)	Rescheduling of mile stones:-	SE,DC-VII, CPWD, IARI Pusa, New Delhi.
(iii)	Shifting of date of start in case of delay in handing over of site:	SE,DC-VII, CPWD, IARI Pusa, New Delhi.

Proforma of Schedule Clause 5 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	100% site available	Not Applicable
Part B	Portion with encumbrances	100% site available	Not Applicable
Part C	Portion dependent on work of other agencies	100% site available	Not Applicable

Clause 6

(Whether Clause 6 shall be applicable Electronic Measurement Book (EMB) through CPWD ERP portal – **Yes**, CPWD OFFICE MEMORANDEM NO. DG/CON-Maintenance- 2020/338, dated 13/04/2023

Clause 7

Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 7 Lakhs or decided by Engineer-In-charge
---	--

Clause 7A

Whether clause 7A shall be applicable.

Yes

Clause10A

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

---Nil---

Clause 10B (ii):**Whether Clause 10 B(ii) shall be applicable**

No

Clause10C :

Yes

(i)	Component of labour expressed as percent of value of work	65%
-----	---	-----

Clause10CC:

Not Applicable

Schedule of component of other materials, Labour etc. for price escalation

Component of civil (Except materials covered under Clause 10 CA) / Electrical construction value of work :-

Xm.....%

Component of Labour-

Expressed as percent of total value of work.

Y.....%

Note:- Xm.....% should be equal to (100)- (material covered under clause 10CA i.e. Cement, Steel, POL and other material specified in clause 10CA+ Component of Labour)

Clause 11

Specifications to be followed for execution of work

1. Electrical works:	a)	CPWD General Specifications for Electrical work Part I Internal - 2023, amended up to date.
	b)	CPWD General Specifications for Electrical work Part II External -2023, amended up to date.
	c)	CPWD General Specifications for Heating, Ventilation & Air-Conditioning (HVAC) - 2024, as amended up to date.
	d)	CPWD General Specifications for Electrical Works Part VII D.G. Sets / Part IV Substation – 2013, amended up to date.
	e)	General Specifications for Electrical Works (Part-III-LIFTS & Escalators) - 2003, amended up to date.
	f)	CPWD General Specifications for Electrical Works Part VI Fire Detection and Alarm System – 2018
	g)	CPWD General Specifications for Electrical Works Part V Wet Riser & Sprinkler Systems – 2023

Clause 12

Type of work:	Maintenance works including works of up-gradation, aesthetic improvement, special repair, addition/alteration etc.
The completion cost of any maintenance work shall not exceed 1.5 times of contract amount and 10% of the sanctioned cost for budgeted works. The Engineer-in-Charge shall record reasons for such deviation beyond the contract amount. Prior approval from SE/CE is required when completion cost of work is likely to go beyond 1.25 times of contract amount with recorded reasons. The powers to sanction the extra items and deviation are given in Financial Powers delegated to CPWD officers.	
Clause 12.2 & 12.3 Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work.	No Limit (as per vide no. DG/SOP/16 dated 15.02.2023)

Clause 16:

Competent Authority for deciding reduce rates

SE, DC-VII, CPWD, New Delhi.

Clause 18:

List of mandatory machinery, tools & plants to be deployed by the contractor at site.	As per direction of Engineer-In-charge
---	--

Clause 19C: Authority to decide penalty for each default :

Engineer-in-charge

Clause 19D: Authority to decide penalty for each default :

Engineer-in-charge

Clause 19G: Authority to decide penalty for each default :

Engineer-in-charge

Clause 19K: Authority to decide penalty for each default :

Engineer-in-charge

Clause 25

Constitution of Dispute Redressal Committee (DRC)	
(a) Conciliator: -	ADG (DELHI), Nirman Bhawan, New Delhi
(b) Arbitrator :-Appointing Authority	SE, Delhi Circle-7, CPWD, New Delhi
(c) Place of Arbitration: -	New Delhi

Clause 32**Requirement of Technical Representative(s) and recovery Rate:**

Cost of work(Rs. In Crores)	Requirement of Technical		Minimum Experience(Years)	Designation Technical Staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling
	Qualification	Number (of Major + Minor component)			
More than 15 lac to 1.5 Crore	Graduate Engineer or Diploma Engineer	1 of major Component	2 or 5 respectively	Project Manager cum Planning/quality/site/billing Engineer	Rs. 15,000/- per month per person

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

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

Clause 38

- (i) (a) Schedule / statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates..... Printed by CPWD.
- (ii) (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

GENERAL TERMS & CONDITIONS FOR ELECTRICAL

(FOR ALL SUB HEADS)

1. Work shall be carried out as per CPWD General Specifications for Electrical Works-(Internal, External, D.G. Set, Fire Fighting/ Wet-riser, Fire Alarm, Sub Station, Lift), HVAC & CPWD maintenance manual wherever applicable and in accordance to the Indian Electricity Rules 1956 and Indian Electricity Act 2003 as amended up-to-date and as per the instructions and satisfaction of the Engineer-in – charge.
2. The rates quoted shall be inclusive of wages of man power i/c relievers, material, T&P and all taxes and duties etc. as applicable. However, ESI/ EPF will be reimbursed to the contractor, on production of proof of deposit of the same with respected Govt. department.
3. The contractor shall take all precautions for safety of the workmen. If any accident/mis-happening occur the department shall not be responsible for the same. If any compensation is to be paid to the victim, the firm shall pay the same and no claim in this account shall be entertained by the department.
4. All the cleaning material i.e. soap, duster etc. shall be arranged by the contractor at his own cost for cleaning of Electrical Installation & fans, switch gear, DB, Main control panel, D.G Set, Fire Alarm. Fire Fighting, Lift, STP, WTP equipment etc. If cleaning of installation is not found satisfactory at any time, a recovery of Rs.200/- per occasion noticed per Sub Head shall be made from the running bill of contractor.
5. The contractor shall furnish name & contract number of the persons, who should be contacted during emergency.
6. All T&P and special T&P shall be arranged by contractor within scope of the work & nothing extra shall be paid on account of this. Before start of contract T&P items necessary for comprehensive maintenance & day to day maintenance, must be kept in a lockable box, if same is not available at site, then a recovery for the same @ Rs. 100/- per day shall be deduct from the contractor's bill maximum upto Rs.1000/-per month.
7. The contractor shall prepare a Sub Head wise "Fortnightly / Monthly "duty chart/ duty roaster with name and duty hours stated therein. The same shall be submitted to the JE (E) / AE (E) concern at least seven days in advance. In a case of absence /leave of any labour substitute should be provided by the contractor.
8. Since the operation of various services at site is event based and very important hence the deployed contractor staff can be interchanged as per requirement among these services as per their skill level on the instructions of Engineer- in-charge or his representatives.
9. In case of any damage to existing equipment/ system/ panels etc. during maintenance, the same will have to be made good by the contractor at his cost. Failure to which the same shall be made good by the department at risk and cost of the contractor and suitable recovery will be made from the contractor bill as decided by the Engineer-In-charge.
10. **Aadhar based biometric attendance system setup with Wi-Fi/Hotspot (Communication internet) along with standby arrangement at his own cost (for which nothing extra shall be paid) for the attendance of Manpower to be deployed. In case of any breakdown same shall be restored within 48 hours, else agency shall bear the penalty of @ 10% of the applicable wages for the number of days of breakdown in Aadhar based Biometric system subject to maximum 10% of manpower item.** During breakdown period of biometric machine concerned AE/JE -in

charge shall mark / verify manual attendance of the contractual staff deployed at site by the contractor. However, during Covid period/any other circumstances if Govt. guideline restricted Aadhar based Biometric Attendance in that case JE / AE in-charge of work shall mark /verify manual attendance of the contractual staff deployed at site by the contractor. Any urgency In Round the clock shift duty, staff of current shift will relive only when staff of next shift join duty. All engaged manpower should join duty on time failing which a penalty charge @ Rs 50 for delay of every 30 minute or part thereof, after initial delay of 10 min will be imposed for every late attendance. Maximum permissible delay is 70 minutes (or as decided by Engineer-in-Charge) after which it will be treated absent. For early departure from scheduled off time, penalty charge will be imposed @ Rs 50 for every 30 minute or part thereof.

- 11.** Before the start of contract, the contractor is bound to submit the following details along with supporting papers of the workers proposed Sub Head wise to be engaged by him. After receipt of confirmation of their suitability from the Engineer-In-charge or his authorized representative, they shall be deployed on duty.

- (a) Name & Postal Address with ID Proof
- (b) Photograph with specimen signature
- (c) Qualification and experience
- (d) Bank accounts details
- (e) ESIC/EPF Details

Before start of work the agency has to got approved the detail of workers from Engineer-In-charge & has to take over the site from AE/J.E. in charge of site.

- 12.** The Engineer-in-charge reserves the right to ask the contractor to remove of any staff without assigning any reason what so ever. Decision of the Engineer-in-charge shall be final and binding on the contractor.
- 13.** The contractor/ Firm is advised to visit the site of work before quoting the rates, in order to ascertain the quantum, site condition and location of work.
- 14.** It shall be entirely the responsibility of the contractor to ensure that no unlawful act is done by his staffs while on duty. In case any theft/ loss of departmental property takes place due to the negligence or carelessness of his staffs, the contractor will be held responsible and shall make good the same. The aforesaid terms and conditions shall be read in conjunction with the general rules and directions from the guidance of Contract form PWD-7 & **General Conditions of Contract (GCC)– Maintenance Work -2023 amended/modified up to last date receipt of tender i/c extension, if any.**
- 15.** Terms of payment and other facilities for workers.
- 15.1.** The contractor is bound to distribute the salary / wages to his worker by 10th of every successive month, positively, by ECS or RTGS or any online bank transaction as feasible and contractor is bound to submit the proof of wages 15th of every month to the JE(E)/AE(E) & if the payment is not made by 10th of every successive month to his workers, **then a recovery @ Rs. 200/- per worker per day of delay** shall be done from the bill of the contractor and the decision of Engineer-In-charge regarding this, shall be final & binding on the contractor.

However, department will make payment to the agency/contractor subject to availability of fund/ Budget and fulfillment of terms & conditions of the agreement. The contractor shall pay salary / wages to his staffs every month in time in spite of whether he will get payment from the department or not.

15.2 The contractor has to provide Vehicle / Cycle or other suitable means of travelling to worker for quick movement to various sites within the scope of the work, for which nothing extra shall be paid.

15.3 The contractor shall be registered with ESIC, EPF. The contractor shall deduct worker subscription toward Provident Fund as ESI, as per rules, he shall deposit the same along with his contribution into the respective accounts of the worker and submit the detail to this office for verification before payment of R/A or Final Bill.

15.4 The contractor shall take all precaution of safety of the workmen. If any accident / mis-happening occur, the department shall not be responsible for the same. Consequently, any compensation payable shall be borne by the contractor.

15.5 Recovery shall be made at the following rate if Operator/Wireman/AC Mechanic /Highly skilled / Khallasi etc. found absent from his duty.

15.5.1 Skilled worker/Operator/Wireman/AC Mechanic @ Rs.2318/-per worker per shift.

15.5.2 Khallasi/unskilled worker @ Rs.1902/-per worker per shift.

17. Terms of payment for the contractor

17.1 The healthiness of the complete system/installations shall be evaluated on the method details in additional terms & condition of individual Sub Head.

17.2 Submission of CMB (Through ERP).

17.3 The contractor shall provide his mobile number and the mobile number of his representative to the Engineer-in -Charge for ease in communication. Contractor shall not change the mobile no during the agreement stipulated period. If mobile is found switch off for more than 4 hours, recovery shall be made @ 100/-per day per mobile no.

18. Maintenance of any other minor addition / alternation in the existing installation shall be covered in the scope of the work and operation & maintenance of the same shall be included in scope of the work and nothing extra will be paid on this account.

Regular maintenance of all the equipment's/ installations are to be carried out at appropriate time and recorded in prescribed form as per their respective maintenance schedules or as per instructions of OEM / CPWD Manual / Format as approved by Engineer-in-Charge.

The contractor shall takeover all E&M inventories from the JE(E)/AE(E) before starting of the work and also handover above inventories in good conditions after the completion of work to JE/AE or next agencies.

19. Safety codes and labour Regulations: -

(a) In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for safety provision as per the statutory provisions, B.I.S recommendations, factory act, workman's compensation act, CPWD code and instruction issued from time to time. Failure to provide such safety requirement would make the tenderer liable for penalty for Rs. 200/-for each violation. In addition, the Engineer-in-charge, shall be at liberty to make arrangements and provide facilities

as a foresaid and recover the cost from the contractor.

(b) The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work or wherever necessary so as to arising accidents. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accidents occurring due to any cause. The department shall not be responsible for any accidents occurred or damaged incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

20. No contractor or his staff shall be allowed to stay at site of work i.e. DG Set Room, Fire Alarm/Control Room, Fire Fighting Pump House, Lift Machine Room, STP Room, WTP etc. or other place at site, after duty hours.
21. In inventory in the schedule is for just to have an idea of quantum of work. However, this may differ from time to time. If any additional / alteration in the installed inventory is found/ made after award of work then contractor shall be bound to maintain in the same within the quoted rates under same scope of work and term and conditions, for which nothing extra shall be paid.
22. Contractor would be bound to execute any extra / additional items (If required as per the Engineer-in-charge), the contractor shall be bound to execute the same and payment shall be made as per relevant clauses of the agreement.
23. The materials shall be purchased from Authorized Dealers/Manufacturers only.
24. The contractor shall submit proof for the genuineness of the materials supplied, like copies of cash memos /bills/challan etc. as per requirement of Engineer-in-charge.
25. All the staff deputed by the contractor shall be responsibility of the contractor and Department will not entertain any Liabilities / responsibilities at any stage for staff deployed by the firm /contractor for all purpose for their regularization /absorption in the department.
26. All the minor items such as cotton waste, grease, old dhoti, Gland dori, soot, safeda, grease, petroleum jelly, PVC Tapes, stationary items/ printed stationary like log book etc. shall be arranged by the contractor for which nothing extra shall be paid.
27. The staff of the contractor shall maintain the register, logbook, worker's diary, maintenance records and registers, as per standard Performa, which will be supplied by the contractor within the scope of the work & nothing extra shall be paid. The log book shall be kept at the site, which may be checked any time by JE(E), AE(E), EE(E) and higher officers. The contractor's staff will have to take action as per direction of Engineer-in-charge or his representative time to time.
28. All dismantle materials comes shall be stacked properly by the contractor and takeout from site as per instruction of the representative of Engineer-in-Charge from time to time.
29. Any damage caused due to negligence of the worker of the contractor during the routine maintenance shall be of responsibility of the agency. The agency will made good the same within the scope of works and nothing extra shall be paid on this account.
30. Bad work-man-ship will not be acceptable and defect shall be rectified at contractor's cost to the satisfaction of the Engineer-in-charge.
31. All scaffolding & material the debris of the electrical works shall be removed and the contractor should clear site immediately after the completion of job.
32. The contractor has to intimate the name of his authorized representative, who will be receiving

instructions in his absence. The contractor / his authorized representative is bound to sign the site order book as and when required by the Engineer-in-charge and to comply with the instructions therein.

33. The Engineer-in-charge has the right to remove any worker from site without assigning any reason. The contractor shall replace with new worker immediately.
34. The contractor will be fully responsible for the genuineness of material, and if at any stage found defective/duplicate shall have to be replaced free of cost.
35. The department reserves the right to terminate the contractor in full or part thereof as required at any stage, without assigning any reason.
36. The Work shall be carried out in VVIP complex, so no claim of idle labour shall be entertained.
37. Sub Head- Supply material items, No minus deviation shall be allowed item of supply shall be supplied within a one Month after award of work otherwise recovery @ 500/- per days shall be recovery from the bill of the contractor. The decision of Engineer-In-charge shall be final & binding on the contractor.
38. All the spares material /parts required for repair /replacement under all subheads work (Civil, Electrical & Mechanical) shall be repaired / replaced with same make & model of spare material / parts. In case of any deviation the same shall be brought into the notice of Engineer-in-charge along with proper justification & supporting documents and shall be replaced / repaired after getting the approval of Engineer-in-Charge.
39. The work will be executed in an occupied building i.e. Dr. C. Subramaniam Auditorium at NASC campus, Pusa in a manner so that no inconvenience will be to the occupant. No claim for idle labour on account of this shall be entertained under this agreement.
40. The contractor has to make his own arrangement of the tools for use by his skilled staffs. Further T&P required at site shall be arranged by contractor. Following T&P shall always be available at site of work otherwise recovery at the rate of Rs. 500/- per day for number of days it is not found at site of work: -

- | | | |
|---|---|--|
| a) Megger, (0-1000Watt) | : | 1 No. |
| b) Earth Tester | : | 1 No. |
| c) Crimping tools | : | 1Set |
| d) Spanner set | : | 1Set |
| e) ALAN Keys set | : | 1Set |
| f) Hammer Drill | : | 1 Nos. |
| g) Hacksaw | : | 1Nos. |
| h) Tong tester | : | 2Nos. |
| i) Pipe wrench & Chain Wrench (for 2inch to 6 inch pipe) | : | 1 No. |
| Tachometer/Hydrometer/Luxmeter (Digital)/ Vernier; Screw gauge (Digital)/ Dial Gauge (as per site requirement) | | |
| j) Ladder of different size | : | 2 Set (Suitable for internal and external electrical work) |
| k) Tool Bags with required tools such as Plier, Tester, Knives Screw Driver set, Rawl Plug with different size of screws Dhori & PVC tape etc.: | | All wireman |

62. Guarantee for LED fittings/ fixtures/ Luminaire (except LED Batten)

- a) All the LED Bulbs/ LED fittings/ LED beam light, (except LED batten) shall be guaranteed for

a period of 5 Years and the agency shall submit guarantee /warranty certificate issued by the competent authority of the manufacturer, specifically issued for this work/ agreement, before payment of final bill.

- b) 50% of the Performance Guarantee for tendered amount of LED fittings i/c extra item , shall be refunded to the contractor soon after the completion of the work and recording of the completion certificate.
- c) 50% of the Performance Guarantee for tendered amount of LED fittings, shall be retained as Security Deposit.
- d) 50% of the Performance Guarantee retained on tendered amount of LED fittings, as Security Deposit plus 2.5% Security Deposit already deducted from running bills (total 2.5 +2.5 = 5% of tendered amount of LED fittings i/c extra item) shall be refunded year wise proportionately.

63. Following colour coding shall be followed in wiring:

Live : Red (Single phase wiring)

Neutral: Black

Earth : Yellow/Green

64. List of Preferred Make of Materials

S. No.	Description of Item	Makes
1	FRLS PVC insulated copper conductor stranded flexible wires i/c control cables (ISI marked)	Polycab/RR Cable / Havells/ Finolex/ Greatwhite / Pi square/HPL/Rallison/Svarn
2	Steel Conduit (ISI marked)	BEC/NIC/AKG /Norpack /RMCON
3	PVC Conduit (ISI marked)	AKG/Finolex/Supreme/Polycab/Avon Plast
4	Modular Switch, Socket, Plates, GI Boxes, Fan regulator	Wipro North-West /Havells / Legrand / MK Honeywell / Schneider /ABB / Anchor
5	DB/MCB/TPMCCB/MCCB/Isolator/DP box	LK/ Anchor Panasonic /Havells / Legrand/Schneider Electric/ Hager/ ABB/HPL/Greatwhite /Honeywell
6	All LED fittings/ LED fixtures	Philips/ Havells/ Orient/Anchor Panasonic/Wipro /LT/Regent /Surya
7	BLDC Ceiling Fan / Exhaust Fan/Wall Fan	Havells/Orient/Usha/Anchor Panasonic/HPL
8	Fire Extinguisher	New Age / Safeguard / Lifeguard / Fire frame/Ceasefire
9	Feeder Pillar	Siemens/ABB/Schneider/SPC Electrotech Pvt.Ltd/Tricolite/Adlec/Milestone/Neptune/ / KV Electrotech / BDE Switchgear /Avon Control/ R.P. Control/ Precision system control/RS Power
10	SMC Box	Sintex/Hansel.
11	Digital Multi-function meter/Digital Ammeter/Digital Voltmeter/CT	Neptune / LK / Schneider Electric /AE / Conzerv / Secure
12	Star delta/ DOL starter	BCH /LK/ Schneider/ Havells/Legrand/ Hegar
13	DWC HDPE Pipe	Rex/Duraline/CPE
14	MS pipe/GI pipe	TATA / Jindal (Hissar)/Sail
15	Paint	Asian/Nerolac / Berger / Dulux

16	CPVC/UPVC pipe	Supreme/Prince/AKG/Finolax
17	Capacitor	Usha/ Tibcon/Havells/Legrand
18	All other items not covered above	As per samples approved by Engineer-In-Charge.

ADDITIONAL TERMS AND CONDITIONS
For EI & Fans

- (1) The work shall be carried out as per CPWD electrical specifications Internal, External, lifts, sub-station, wet riser system, and fire alarm system upto date amended and entire satisfaction of Engineer-in-charge.
- (2) The contractor will have to depute following staffs on all days including Sundays & Holidays.
 - a) Wireman - 1 No. on all working days excluding Sundays & Holidays.
 - b) Khallasi – 1 No. on all working days excluding Sundays & Holidays
- (3) The contractor will have to maintain all the installations/equipments in proper working condition. The service are to be provided on all days excluding Sundays.
 - Qualification of Wireman:- Should have valid Wireman License/electrical workman license/ITI/ Electrician license issued by the competent authourity.
 - Qualification of Khallasi:-Physically strong/Mentally fit, minimum 5th Pass or above.
- (4) The contractor will have to depute additional skilled labour to attend to a fault beyond the competency of the staff deployed for which nothing extra shall be paid.
- (5) The staffs deputed at site shall have to attend all breakdown maintenance complaints and preventive maintenance of all internal and external electrical installations like ponts, wirings, MCB DBs, light fittings, Fans , Compound lights, Street lights etc. installed at the site mentioned in SOQ, within the scope of the works.
- (6) The staffs deputed at site shall attend all the complaints receieved directly from the client department or through JE(E)/AE(E) promptly.
7. All the hidden works shall be carried out in the presence of Engineer-in-charge or his authorized representative with giving sufficient prior information.
8. The contractor shall make his own arrangements for storing the materials and watch & ward at his own cost, even for the installation till the completion of the work and handing over of the building/quarters.
9. The contractor shall make his own arrangement for all general and special tools and plants required for the work at his own cost and nothing extra shall be paid on this account.
10. All the dismantle materials shall be returned back to the department at store of concerned JE (E), for which nothing extra shall be paid on this account. If the contractor fails to return the dismantle materials, then a recovery shall be made from the bill of the contractor @ rate as decided by the engineer-in-charge, which will be final and binding on the contractor.

ADDITIONAL TERMS & CONDITIONS**For Sub Head - SH-I (FIRE FIGHTING SYSTEM AND FIRE ALARM SYSTEM)**

- (1) The work shall be carried out as per CPWD specifications for Electrical (Part-I), Fire fighting (Part-V) and fire Alarm system (Part-VI) amended up to date and entire satisfaction of Engineer-in-Charge.
- (2) The details of installation to be maintained under the contract are as mentioned below.
- | | | |
|--|---|----------|
| 1. 5 HP Pump Set (Kirlosker Make) | — | 1 No. |
| 2. Main Fire Alarm Panel | — | 1 No. |
| 3. Zonal Panel | — | 03 Nos. |
| 4. 4.5 Kg CO2 type fire extinguishers cylinder | — | 18 Nos. |
| 5. 2 Kg CO2 type fire extinguishers cylinder | — | 02 Nos. |
| 6. 4 Kg ABC type fire extinguishers cylinder | — | 20 Nos. |
| 7. Response Indicator | — | 58 Nos. |
| 8. Heat Detector | — | 116 Nos. |
| 9. Sounder/Speaker | — | 07 Nos. |
- (3) The minor components such as LED, glasses, LMT, condensers, capacitors, resistors, insulation tape, diodes, rubber gasket, indicating lamps, connecting wires, lead, lugs thimbles, distilled water, petroleum jelly, gland dori, greese etc. shall have to be replaced by the firm free of cost. All the major components if required for maintenance shall be arranged by the firm and the department shall however pay the cost at prevailing market rates at the time of requirement/replacement.
- (4) In case of fire signal received on control panel or some type of false fire alarm if any, the duty staff must locate the site of fire/fault and find out the location. If fire is detected the information shall be passed on security staff on duty OR AE (E)/JE (E) site in-charge and the fire services at once.
- (5) **Details of Manpower to be deployed for following site**
- (i) Operator – 1 No (General shift) on all working days excluding Sundays & Holidays. Timing will be decided by Site In-charge.

Qualification of deputed Manpower

- i) Operator should have valid Wireman License/electrical workman license/Electrician license issued by the competent authority.
- (6) The following checking & preventing maintenance of Fire alarm system to be done at site within the scope of work for which nothing extra shall be paid.

(A) DAILY CHECKS:-

- (i) The contractor shall carry out daily examination of the sector panels, main panels of F.A& P.A. system, control panel to check the status of fault and fire indicators and also to keep all the system in

perfect working order. Any fault observed shall be recovered in the log book and reported to the department. Remedial action shall be taken at once to set right the system.

(B) WEEKLY CHECKS:-

- (i) Check the battery i/c level if electrolyte, connection, leads, voltage etc.
- (ii) Check the soundness of the panels.
- (iii) Once a week, some heat detectors and manual call boxes shall be triggered.
- (iv) Different detectors should be checked in the sequence. This shall be recorded in the log book.
- (v) Public address system i/c talk back system is to be tested once a week & fault noticed shall be made good and be recorded in the log book.

(C) MONTHLY CHECKS:-

- (i) Cleaning of all fire control panels and check the servicing conditions.
- (ii) Check all the sounders / hooters and talk back unit.
- (iii) Check the operational readiness of control panel in case of electrical main failure.

(D) QUARTERLY CHECKS:-

- (i) Cleaning of control panel, all the detectors by vacuum cleaners of all sluice valve/N.R valve etc.
- (ii) Carry out checks without main supply, on battery voltage with all the panels and sounders operating at a time.
- (iii) Zonal check by stimulating fault and removing the last detectors and correction if reqd.
- (iv) The contractors have to provide a demonstration to the client department regarding the working and operation of the entire system.

- (7) The following checking & preventing maintenance of Fire Fighting system to be done at site within the scope of work for which nothing extra shall be paid.

1. Twice of week: -

- a. Check the complete system such as pumps, valves, fire fighting fitting at every outlet.
- b. Check the pipe line, joints/flanges, pumps sleeves for leakage and cleaning the panels etc. from the exterior with a damp cloth.
- c. Check the operability of motor, pumps at least by running for 5 minutes and recording of parameters such as voltage, current, pressure etc.
- d. Check the availability of water in the pump in case of fire fighting system.
- e. Check and maintenance of appropriate pressure in the pipe line incase of fire fighting.

2. Fortnightly Checks: -

- a. Checking / air blanking of installations.
- b. Checking of nuts and bolts and tight if necessary.
- c. Checking of lugs, thimbles, terminal blocks of electric motors, switches, starters and control accessories for their appropriate condition and indications, take remedial steps if required.
- d. Checking of pump's coupling for appropriate alignment and rectify if necessary.
- e. Checking of gland packing and add more packing, if required.

3. **Monthly Checks: -**

- a. Run the pumps set at least 10 minutes and check the operation for vibration, excessive heating, noise and alignment.
- b. Check the functioning of all the valves and accessories by actual opening and closing them.

4. **Half yearly Check: -**

- a. Apply grease and avoid over greasing.
- b. Checking of gland packing.
- c. Checking of for play in bearing, replace if necessary.
- d. Checking of accuracy of relay operation.

A. **Yearly Checks: -**

Calibrate all ammeters voltmeters pressure gauges and other indicating instruments

ADDITIONAL TERMS & CONDITIONS
For Sub Head - II (Operation of Lift)

1. The work shall be carried out as per CPWD Electrical specifications Internal (Part-I), External (Part-II) & lift (Part-III) amended up to date and entire satisfaction of Engineer-in-charge.
2. The details of installation to be operated under the contract are as mentioned below.

Details of Equipments/Inventories

- (i) 2 Nos. Bed cum passenger lift

3. Details of Manpower to be deployed at site

- (i) Lift Operator - 1 No. (General shift) on all working days excluding Sundays & Holidays. Timing will be decided by Site In-charge.

4. Qualification of deployed Manpower

- (i) Lift operator should have 10th passed with 3 years experience of lift operation.

5. Duties of Lift Operator :-

- a). He should be able to read technical instructions and record/ maintain log books.
- b). He should be trained for proper operation of lift and about safety and technical aspects of lift and to rescue stranded person as per proper method of rescue.
- c). Proper method of rescuing a stranded passenger :-
 - i) The passenger is able to communicate with the help of emergency bell/ intercom.
 - ii) The car light, fan, bell, intercom system should get benefit or emergency electric supply.
 - iii) The operator is to assure the passenger that he will be rescued shortly and request him to stay claim and not to force open the doors.
 - iv) Go to lift M/C room, switch off power supply, bring lift to nearest landing by manual operation, open lift/ landing door, Now passenger can leave the lift.
 - v) Examine the lift, if it is unsafe, then shut down lift service. Don't allow the lift to be used.
 - vi) Immediately inform JE/AE/Lift service to take necessary action to remove the deficiency of lift.
 - vii) Keep " lift out of order/ Don't enter lift" handy sign boards to keep in front of such lift.
- d). During normal operation of lift, the operation is to ensure :-
 - i) Orderly exit / Entry of lift users.
 - ii) No overloading.
 - iii) Prevent improper goods transportation, which might damage the lift.
 - iv) Misuse of lift.
 - v) Passengers should not smoke inside.
- e). Summary :-
 The basis duties of lift operator are to ensure.

- i) Daily safety checks of lift.
- ii) Cleanliness of lifts and machine room.
- iii) Prevent overloading/ Misuse/ abuse of lift.
- iv) Shutdown lift in case it becomes unsafe and takes immediate action to inform JE/AE/Lift Machine/ Lift service center and guard the lift till help arrives.

f). Daily safety check & check list for lifts

Daily safety check

- i) First clean lift car inside and M/c room.
- ii) Run the lift to start from ground floor to last landing and back to ground floor, stopping at each floor.
- iii) Check leveling at each landing.
- iv) Check door opening/ closing at each landing.
- v). Check working of all buttons, controls, indication of the lift car.
- vi). Check working of alarm switch.
- vii). Check working of emergency light and fan.
- viii). Check working of intercom system.
- ix). Notice any abnormality in running, jerk, improper landing etc.

Monthly Check list (Open register for daily safety check of each lift to be counter signed by JE/AE once in a month)

- i). Lift car, M/c room cleaned – Ok.
- ii). All car buttons functional – Ok.
- iii). Emergency alarm working – Ok.
- iv). Emergency light, fan working – Ok
- v). Intercom working – Ok
- vi). Run the lift room ground floor to highest floor and back to stop at all landing – Ok
- vii). Leveling at each floor – Ok
- viii). Door opening / closing – Ok
- ix) . No Jerk/ Abnormalities in running – Ok

ADDITIONAL TERMS & CONDITIONS**For Sub Head - III (Operation of DG Set)****1. Details of Equipments/Inventories**

- (i) 82.5 KVA D.G. Set with AMF panel and all allied accessories

2. Details of Manpower to be deployed at site

- (i) DG Set Operator - 1 No (General shift) on all working days excluding Sundays & Holidays. Timing will be decided by Site In-charge.

Shift timings can be changed as per the requirement at site and decision of the Engineer-in-charge.

3. Qualification of deputed Manpower

- ii) DG Set Operator should have valid Wireman License/electrical workman license/Electrician license issued by the competent authority.
- 4. The work shall be carried out as per CPWD general specifications for electrical works Part-I &II (Electricals) , part VII (D.G. sets) upto date amended and entire satisfaction of Engineer-in-charge or his representative.
- 5. The contractor will have to maintain all the installation/ equipments as stated proper working condition.
- 6. The contractor will have to depute additional skilled labour to attend a fault beyond the competency of the staff deployed for which nothing extra shall be paid.
- 7. The contractor will have to maintain registers for all the checks and faults with date and time of all equipments at site and the firm has to arrange the log book within their quoted rates & nothing extra shall be paid on account of this. These registers will be checked by the Junior Engineer (E)/Asst. Engineer(E)/Executive Engineer(E).
- 8. The Minor material such as soap, duster, broom, old dhoti, cotton waste, fuse wire, PVC tape, Grease, M. oil, test lamp, torch etc. shall be arranged by the contractor within their quoted rates & nothing extra shall be paid on account of this .
- 9. In case of minor repairs/ replace required such as nut bolt, fuse wire, connecting wire, distilled water, petroleum jelly, thimbles etc. the contractor shall arrange the same within quoted rate & nothing extra shall be paid on account of this . However major repairing not covered in the scope of work.
- 10. Contractor shall make arrangement of one mobile phone in the sub station for the central control room for smooth functioning of the maintenance system the mobile phone shall be handed over to

the manpower of another shift or the same number shall be available for round the clock and all the days. The mobile number shall be communicated to the department by the agency.

11. In case of electrical supply failure the contractor or his worker available on duty shall record in brief action taken in this regard with supply agency.
12. In case of any problem arising in equipments/installations at site contractor has to arrange the Engineer/ Micro processor Engineer/ any other assistance required as and when and as per need of site or as per the direction of Engineer-in-charge with in the quoted amount for which nothing extra will be paid.

ANNEXURE-V**ADDITIONAL TERMS & CONDITIONS****For Sub Head- IV (Comprehensive maintenance of Kirloskar make D.G. Sets)**

1. Contractor will arrange for following visit in equally spread manner in a 12 months.
 - (i) Mechanical visit.
 - (ii) Electrical Visit. } (12 Visit Equally Spread)
2. Complaint to be attended within four hrs.
3. Service shall be available on 24hr. X 7 days basis.
4. Following check to be carried out during visit:-
 - (a) General checkup and preventing maintenance and fill up preventive checking schedule for each machine
 - (b) Checking of engine for smooth running, its unusual sound and colour of smoke from exhaust.
 - (c) Carrying out B & C check & setting valves tappets as and when required.
 - (d) Checking accessories drive. Turbo charges and crank shaft and play (when ever required.)
 - (e) Checking of battery terminal and cleaning of sulphation.
 - (f) Checking of throttle Control.
 - (g) Checking of alignment of engine and alternator (when ever required.)
 - (h) Checking of instrument on instrument panel .
 - (i) Checking of wiring system for loose connection.
 - (j) Proper maintenance of relays, contractors in control panel.
 - (k) Check for proper closing main Breaker (Relay/MCCB/ACB).
 - (l) Diagnosis of fault in engine and alternator and its rectification within the scope of this contract.
 - (m) Checking of rotating diodes assembly in brushless alternator.
5. The work shall be carried out as per CPWD general specifications of electrical works amended upto date and as per direction of Engineer-in-Charge.
6. All T & P and special T&P shall be arranged by the contractor and nothing extra shall be paid on account of this.
7. The material to be used at site shall have to be got approved by Engineer-in-charge before use.
8. Any damage done to the building/ equipment shall be made good by the contractor at his own risk and cost.
9. The site shall be cleared properly after completion of work.
10. Bad workmanship is not acceptable.
11. The contractor shall make all safety arrangement during execution of work if any accident occurs due to the negligence it will be the entire responsibility of the contractor.
12. The contractor must be either a manufacturer/ authorised dealer of Kirloskar make D.G set.
13. All breakdown complaints shall be attended by the contractor within 24 hours of intimation of breakdown, otherwise a penalty of Rs.2500/- per complaint per day of delay from his bill until attendance of the complaint.

ADDITIONAL TERMS & CONDITIONS**For Sub Head- V (Comprehensive maintenance of Escon make lift)**

1. The Contractor will employ trained and appropriately skilled staff. They will be qualified to keep the equipment properly adjusted and they will take proper care to maintain the equipment in reliable efficient and safe operating condition.
2. The Contractor shall regularly examine lubricate and adjust the equipment and generally carryout planned maintenance in a systematic and controlled manner.
3. The Contractor shall repair or replace any parts detail in the following clause which are found to be defective.
4. The equipment covered in the contract for maintenance include:-
 - (a) Renew all wire, ropes and chains as often as required to maintain an adequate factor of safety, to equalise the tension on all hoisting ropes, repair or replace cables and hoistway and machine room elevator wiring and Exhaust Fan i/c fixtures etc. complete as reqd. except for tube light and ARD batteries all other items in lift are include in comprehensive maintenance contract.
 - (b) Furnish Lubricants.
 - (c) Examine periodically all safety devices and governors and make all customary safety tests.
 - (d) Systematically examine and adjust the following components:-

MACHINE:-Worm gears, thrust bearings, Drive sheave, Drive Sheave bearings, Break Contact Lining and components.

MOTOR:-Motor generator, Motor Winding Rotating Element, Commuter Brushes, Brush Holders, bearings, coils, Resistance for operating and motor circuits, magnet frames and other mechanical parts.

CONTROLLER:-Selector, leveling devices cams, relays, solid state components e.g. P.C.B.'s, Transducers, Resistors condenser, Power Amplifiers, Transformers, Contacts Leads, Dashpots, Timing devices, Steel selector, tapes mechanical and Electrical driving equipments.

GOVERNOR:-Governor sheave, shaft Assembly bearing contacts and Governor's Jaws.

CAR:-CAR and all mechanical buttons, car and all position indicators, all Lanterns, Car direction indicators and all other Car and handling signal fixtures.

DEFLECTOR or secondary sheave, bearing's, car and counterweight guide rails and buffers. Tap and bottom limit switches, Governor, tension sheave assembly, compensating sheaves assembly, car counter weight and counter weight guide shoes including Rollers or Gibs.

INTERLOCKS on hoisting doors, hoistway door hangers guides, Automatic power operated Door, Car Door hanger, Car Door Contact, safety shoe, load weighing equipment, Car frames, Car safety mechanism and platform.
5. The firm will give priority in its service, repair and other facility to restoring the equipment to normal services.

6. All parts mentioned in clause 4 will be furnished by the firm on an exchange basis under which replaced parts will become the property of the firm.
7. All works and services provided for in this Agreement are to be performed during normal working hours on normal working days.
8. The scope of the contract does not include replacement of car enclosure, hung ceilings, light diffusers, light bulbs/lamps, Fl./Cfl/LED lamps, hand rails, starters, chokes, mirror, floor coverings, carpets, other architectural features, hoist way enclosure, hoist way gates, door frames, doors sills, batteries, Fan in car , security system, external wiring to elevators.
9. The contractor will assign a representative who will periodically visit the site and will be available for consultation in any matter relating to the maintenance of the Elevators and shall keep records of all visits work carried out there on.
10. The Contractor will provide CALL BACK Service for any breakdown occurred in any lift within the scope of the work & nothing Extra shall be paid on account of this. This CALL BACK Service will be provided round the clock on all Days. All breakdown complaints shall be attended by the contractor within 24 hours of of intimation of breakdown, otherwise a penalty of Rs.3000/- per complaint per day of delay from his bill until attendance of the complaint.
11. The work shall be carried out as General Specifications for lifts Part-III, 2003 amended upto date and the entire satisfaction of the Engineer-In-Charge.
12. Minimum one servicing in a month to be carried out and duly certified by the JE(E)/AE(E).for non carrying out of any monthly servicing then a recovery of Rs.1,000/- per lift per servicing will be deducted from the bill of the agency.
13. The tendered rates shall be deemed to include for all services & taxes covered under this contract and no extra payment will be made on this account.
14. Any accident occurred due to negligence will be the entire responsibility of the contractor nothing extra shall be paid on this account by the department.
15. The agreement shall be terminated/ foreclosed after award of work as per decision of the Engineer-In-charge & no claim of the agency on account of this shall be entertained .

Executive Engineer (E)
DED-71, CPWD, Pusa
New Delhi.

SCHEDULE OF Quantity

N/W: ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)

S.No.	Description of item	Qty	Unit	Rate	Amount	Remarks
Sub Head-I (Fire Alarm & Fire Fighting system)						
1	Providing services for operation & routine maintenance of fire fighting system, water supply pumps. fire alarm system i/c PA system & associated system on monthly basis in one shift with deployment of following manpower excluding Sunday & holidays. a) Fire Operator - 1 No. (General shift)	12	Month	35920.00	431040.00	MR
2	FIRE DETECTION AND ALARM SYSTEM					
a	Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required	15	Each	3004.00	45060.00	28.2.4
b	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS/HFFR outer sheath complete as required	100	Mtr	192.00	19200.00	28.5.2
3	Refilling, testing, and servicing of following fire extinguishers of various capacities, including collection from the site, complete discharging of residual contents, thorough cleaning, and servicing of valve assemblies. The work involves refilling with fresh ABC powder (IS: 14609 / IS: 4308) and pressurizing with dry nitrogen, or filling with fresh CO2 gas (IS: 15222) as applicable, checking for leaks, sealing, affixing new service tags indicating refill and next due dates, delivery, and re-installation at the original location, all complete as per IS: 15683 and the direction of the Engineer-in-charge.					
a	4.5 Kg CO2	25	Each	1114.00	27850.00	MR
b	6 Kg ABC	20	Each	994.00	19880.00	MR
c	3 KG CO2	7	Each	792.00	5544.00	MR
d	4Kg ABC	9	Each	572.00	5148.00	MR
Total Sub Head-I					553722.00	
Sub Head-II (Running & operation of lift)						
1	Running & Operation of 2 Nos.20 Passenger =1368 Kgs capacity Bed cum passenger Lifts , G+3 at CGHS Dispensary, Janakpuri, New Delhi with the deployment of following manpower on monthly basis excluding Sunday & Holidays in one shift. a) Lift Operator - 1 No.	12	Month	35920.00	431040.00	MR
Total Sub Head-II					431040.00	
Sub Head-III (Operation of DG Set)						

1	Running operation and routine maintenance of 82.5 KVA D.G. Set with AMF panel and Distribution panel installed at CGHS Dispensary, Janakpuri, New Delhi with the deployment of following manpower on monthly basis excluding Sunday & holidays in one shift. a) DG Set Operator - 1 Nos.	12	Month	35920.00	431040.00	MR
Total Sub Head-III					431040.00	
Sub Head-IV (Comprehensive Maintenance of DG Set)						
1	Comprehensive maintenance of following DG sets make Kirloskar i/c replacement of minor parts like nut & bolts, washers, gasket, routine check up, attending the complaints as and when reported by the department etc. as reqd.					
a	82.5 KVA DG Sets - 1 No	12	Months	4290.00	51480.00	MR
2	Servicing of DG sets twice in a year (after 6 month) i/c supply and replacement of following defective parts to be replaced time to time during 'B' check kit for the same in the existing 82.5 KVA DG sets Kirloskar make i/c testing & commissioning etc. complete as reqd.					
a	Lube Oil Filtler 1 Ltr. Element paper type (Part No. 06.040.01.0.00)	2	Each	133.00	266.00	MR
b	Fuel Filter Kit 1 ltr (Part No. 48.999.20.0.00)	2	Each	305.00	610.00	MR
c	Koel care Genuine Coolant premix (Part No. 82.020.35.1.05)	2	Each	1179.00	2358.00	MR
d	Kirloskar care Super Genuine Oil 13 Liter can (Part No. 82.050.10.0.13)	4	Pck	5610.00	22440.00	MR
Total Sub Head-IV					77154.00	
Sub Head-V (Comprehensive Maintenance of Escon make lifts)						
1	Comprehensive maintenance of 2 Nos.'Escon' make 20 passenger (20X68=1360 Kgs) capacity bed-cum-passenger lift, 1 mtr/ sec. with 4 stop/4 landing (G+3), about 10.1 mtr travels, automatic/ attendant operation in CGHS dispensary at C-4, Janakpuri, New Delhi. Machine No. DLA 7199/200	12	Per month	22948.00	275376.00	MR
Total Sub Head-V					275376.00	
Sub Head-VI (EI & Fan)						
1	. Providing services of running maintenance of all internal & external Electrical installations /equipments of CGHS Dispensaray at C-4 Janak Puri, New Delhi, by deploying following manpower on monthly basis, in One shifts on all days excluding Sundays & Holidays.					
a	Wireman - 1 No	12	Month	35920.00	431040.00	MR
b	Khalalsi - 1 No	12	Month	29470.00	353640.00	MR
Total Sub Head-VI					784680.00	
Sub Head- VII (Special Repairing)						

1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.					
a	Group C	40	Point	2101.00	84040.00	1.3.3
2	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.					
a	Group C	80	Point	1064.00	85120.00	1.15.3
3	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
a	3 x 1.5 sq. mm	90	mtr	104.00	9360.00	1.17.3
b	6 x 1.5 sq. mm	60	mtr	195.00	11700.00	1.17.6
c	3 x 4 sq. mm	200	mtr	222.00	44400.00	1.17.21
d	6 x 4 sq. mm	80	mtr	424.00	33920.00	1.17.24
e	3 x 6 sq. mm	120	mtr	326.00	39120.00	1.17.30
f	6 x 6 sq. mm	50	mtr	641.00	32050.00	1.17.33
4	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 steel conduit as required.					
a	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	50	mtr	370.00	18500.00	1.7.1
b	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	80	mtr	476.00	38080.00	1.7.3
c	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	80	mtr	652.00	52160.00	1.7.4
5	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	10	Each	402.00	4020.00	1.25
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	15	Each	545.00	8175.00	1.31
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	20	Each	659.00	13180.00	1.32
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.	10	Each	807.00	8070.00	1.57

9	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 40 V, on surface/ recess, complete with tinned opper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without B/RCCB/Isolator)					
a	12 way , Double door	1	Each	2871.00	2871.00	2.3.3
10	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
a	8 way (4 + 24), Double door	2	Each	10724.00	21448.00	2.5.2
11	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a	Single pole	24	Each	285.00	6840.00	2.10.1
b	Double pole	2	Each	696.00	1392.00	2.10.3
12	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, Ics=100% Icu and Operational Voltage 690V etc. as required.					
a	100 A, 16 KA,TPMCCB	1	Each	4003.00	4003.00	2.2.1
b	125 A, 16 KA,TPMCCB	2	Each	5103.00	10206.00	2.2.2
13	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.					
a	6 Module (200mmX75mm)	10	Each	462.00	4620.00	1.27.4
b	12 Module (200mmX150mm)	6	Each	614.00	3684.00	1.27.6
14	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
a	5/6 A switch	20	Each	121.00	2420.00	1.24.1
b	15/16 A switch	24	Each	176.00	4224.00	1.24.3
c	3 pin 5/6 A socket outlet	20	Each	136.00	2720.00	1.24.4
d	6 pin 15/16 A socket outlet	24	Each	219.00	5256.00	1.24.5

15	Supplying, installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 <120 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium body (Thickness > 1.20 mm)					
	45 watt	10	Each	3166.00	31660.00	8.6.6
16	Supplying Installation Testing & Commissioning of LED post top light fitting having rating not more than 45 W system Efficacy not less than 100 lm/w, system lumens output not less than 4000 or above CCT 4000 or above in cool day light (5700k to 6500k), PF > 0.6, CRI>70 THD<10% made out of aluminium die cast housing for better durability, thermal management and protection from corrosivity with pre wired gear tray, LED and driver, IP 65/IP66 protection i/c fixing the same directly on pole/ pillar and connection etc. as required.	5	Each	8254.00	41270.00	MR

17	Fabrication, Supply, Installation, Testing, and Commissioning of Outdoor type, floor-mounted, dust, weather, and vermin-proof MV Distribution Panel / Feeder Pillar enclosure (IP-55 protection) of 400mm depth fabricated from minimum 2.0 mm (14 SWG) CRCA sheet steel for frame and doors with sloped rain canopy, neoprene gaskets, padlocking arrangement, anti-rust 7-tank treated powder-coated finish (RAL 7032), mounted on ISMC 75/100 MS channel base frame including civil foundation works; with plastering and painting (if reqd), as per technical specifications (Quantity is area of front surface of panel) electrolytic grade Aluminum/Copper busbars rated for minimum 200A with heat-shrinkable color-coded sleeves; 3 mm detachable bottom gland plates and continuous GI/Copper earth busbar; including providing suitable compartments, DIN rails/mounting plates, cutout provisions, terminal blocks, internal control/power wiring with 2.5 sqmm. copper wire, and necessary hardware, and fixing, mounting, connecting, testing, and commissioning complete as required.	1.2	Sq.mtr	26934.00	32320.80	MR
18	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, Ics=100% Icu and Operational Voltage 690V etc. as required.					
a	125 A,36KA,FPMCCB	1	each	8644.00	8644.00	2.2.14
19	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a	63 A	3	Each	1115.00	3345.00	2.13.2
20	Supplying and fixing of flush-mounted digital multifunction meter class I (measuring VAF + PF meter with RS 485 (Hz) 96mm X96 mm in the existing panel board including making connections, testing, and commissioning etc. as required.	1	Each	3933.00	3933.00	MR
21	Supplying and fixing of LT grade, window-type current transformers of ratio 200/5A (Class 1.0, 5VA burden) suitable for busbar mounting inside the existing panel board including making connections etc. as required.	3	Each	589.00	1767.00	MR
22	Supplying and fixing of 22.5mm LED indicating lamps rated for 240V AC m for R-Y-B (3 Nos. - 1 Set) incoming phases in the panel board including internal control wiring etc. as required.	1	Set	671.00	671.00	MR
23	Supplying and fixing of 3-phase Direct-On-Line (DOL) motor starter inside existing Outdoor Panel suitable for 7.5 HP motor, comprising of power contactor and bimetallic thermal overload relay (adjustable range approx. 9.0A to 14.0A), including making connections, testing, and commissioning etc. as required.	3	Each	3733.00	11199.00	MR
24	Supply and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
a	3½ X 50 sq. mm	65	Mtr.	1007.00	65455.00	MR

25	Supplying and Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					
a	3½ X 50 sq. mm	15	Mtr.	928.00	13920.00	MR
26	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.					
a	63 mm dia (OD-63 mm & ID-51 mm nominal)	16	Mtr.	289.00	4624.00	15.16.1
27	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
a	3½ X 50 sq. mm (35mm)	2	Each	484.00	968.00	11.1.22
Total Sub Head-VII					771355.80	
Sub Head- VIII (Supply of materials)						
1	Supply of Ceiling fan with Brush Less Direct Current (BLDC) Motor, etc. complete as req 1200mm, BEE 5 star rating, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	20	each	2421.00	48420.00	DSR Based
2	Supply of S.P. 5/6 amps, one way modular switch, ISI marked etc as required.	40	Each	44.00	1760.00	DSR Based
3	Supply of S.P. 15/16 amps, one way modular switch, ISI marked etc as required.	40	Each	95.00	3800.00	DSR Based
4	Supply of 3 pin 5/6 amps modular socket outlet, ISI marked etc as required.	20	Each	29.00	580.00	DSR Based
5	Supply of 6 pin 15/16 amps modular socket outlet, ISI marked etc as required.	30	Each	77.00	2310.00	DSR Based
6	Supply of 1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable etc as required.	200	mtr	23.00	4600.00	DSR Based
7	Supply of 4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable etc as required.	200	mtr	54.00	10800.00	DSR Based
8	Supply of 6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable etc as required.	100	mtr	81.00	8100.00	DSR Based
9	40 A, 2 pole isolator	10	Each	346.00	3460.00	DSR Based
10	LED Batten light (System lumen efficacy ≥105 <120 lm/Watt) of following body materials. Powder coated die cast /Extruded aluminium Body (Thickness > 1.20 mm)					
a	40 Watt	50	Each	428.00	21400.00	DSR Based

11	Supply of LED Down lighter (SMD Type) (System lumen efficacy $\geq 105 < 120$ lm/Watt) of following body materials. Powder coated die cast /Extruded aluminium Body including trim with Aluminium Reflector					
a	12-15 watt	20	Each	422.00	8440.00	DSR Based
12	Supply of 300 mm sweep metal body, double ball bearing heavy duty exhaust fan 1400 rpm suitable for operation on 240/230 v AC supply along with all accessories such blade frame etc.	2	Each	3000.00	6000.00	MR
13	Supply of 400 mm sweep wall fan on surface wall double ball bearing heavy duty wall fan suitable for supply along with all accessories etc	4	Each	2221.00	8884.00	MR
Total Sub Head-VIII					128554.00	
Total SH-I + II + III + IV + V+VII+VIII					3452921.80	
	Sub Head-IX (Credit for Dismantled Material)					
1	Credit Back of Dismantled old unservicable Material received from Site i/c dismantling the material from site.					
a	Ceiling fan	20	Each	-550	-11000.00	
b	Exhaust Fan/ Wall Fan	6	Each	-300	-1800.00	
c	LED batten light / Down lighter	70	Each	-2	-140.00	
d	DP/SPN MCB/RCCB	39	Each	-2	-78.00	
e	Old burnt switch/socket/ regulator/bell push	100	Each	-0.15	-15.00	
f	Old iron boxes	10	Each	-30	-300.00	
g	Smoke detector	15	Each	-10	-150.00	
h	Fire Alarm Armoured Cable	10	Kg	-20	-200.00	
i	Copper Wire/Cable	10	Kg	-200	-2000.00	
j	Aluminum Wire/ Cable	5	Kg	-100	-500.00	
k	MCB/SPN	10	Each	-2	-20.00	
l	MCCB	4	Each	-10	-40.00	
m	Old/ Rusted panel Board (without accessories)	1	Set	-500	-500.00	
n	Motor Starter	3	Each	-100	-300.00	
o	LED Panel light	10	Each	-10	-100.00	
Total of SUB Head-IX					-17143.00	
Total of SUB Head I+II+III+IV+V-VII+VIII+IX					3435778.80	

Say Rs. 34,35,779/-

Note :- (For credit of Item 11 (a) to (o) :- The rates should be quoted at par or above, if bidder quote the same as below, rates shall be considered at par for financial bid evaluation)

Assistant Engineer (E) (P)

Executive Engineer (E)
DED-71, CPWD, Pusa,
New Delhi.



Central Public Works Department

NIT No: 107/2026-27/DED-71/3

Name of work:- ARMO of EI & Pump, lift, DG set Fire alarm & fire fighting CGHS Dispensary building at C-4 Block, Janakpuri, New Delhi. (SH:- Running operation & maintenance of specialized Electrical & Mechanical Services)

SCHEDULE OF QUANTITIES

Name of the Contractor / Company Name					
Sl.No.	Name of component	Estimated cost	Percentage above or below the estimated cost	% in Figures	Total Cost
1	Work as per SOQ	3435779	Select	0.00	-
	Grand Total				-