GOVERNMENT OF INDIA

OFFICE OF

DELHI ELECTRICAL DIVISION - 21

CENTRAL P.W.D., NEW DELHI.

NOTICE INVITING TENDER

N.I.T. No.: 205/EE(E)/DED-21/2026-27

NAME OF WORK: ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)

ESTIMATED COST PUT TO TENDER:	**₹ 9,32,366/-**
EARNEST MONEY:	**₹ 18,647/-**
TIME ALLOWED:	**01 Month**

Assistant Engineer (P) E
Delhi Electrical Division-21
CPWD, I.P. Bhawan
New Delhi

Executive Engineer (E)
Delhi Electrical Division-21
CPWD, I.P. Bhawan,
New Delhi

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

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Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

N. I. T.

Name of work: **ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)**

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Assistant Engineer (P) E
DED-21, CPWD
I.P. Bhawan, New Delhi

This N.I.T. is approved for **₹ 9,32,366/-**

NIT No. 205/EE(E)/DED-21/2026-27

Executive Engineer (E)
DED-21, CPWD,
I.P. Bhawan, New Delhi

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

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CHECK LIST FOR BIDDERS FOR SUBMISSION OF BIDS

1 The bidder should read all the instructions, items & conditions, contract clauses, nomenclature of items, specifications etc., contained in the bids document very carefully, before quoting the rates.

2 The bidder should also read the Applicable GCC is Maintenance Works 2023 as modified & corrected upto previous day of the last date of submission of the tender.

3 The bidder shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing extra shall be payable unless otherwise specified.

4 The bidder shall have to make his own arrangement for housing facilities for staff and labour away from construction site and shall have to transport the labour to and fro between construction site and labour camp at his own cost. No labour huts will be allowed to be constructed at the project site except a few temporary sheds for chowkidars and storekeepers at project site. Any decision in this regard shall rest with the Engineer-in-charge and the contractor shall have no claim on this account.

5 The bidder should read the specification and special condition and additional conditions etc.

6 The work required to be executed in occupied building. The bidder shall take precaution to ensure quality of workmanship as well as the progress of the work. He shall regulate the labour accordingly.

7 The bidder shall make environment friendly arrangement for disposal of dismantle/waste materials from upper floors.

8 C.P.W.D Contractor's Labour Regulations:

Payment of Wages (as per DG, CPWD OM no. DG/SE/CM/CON/283 dated 05.05.2015)

(i). Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.

(ii) All wages shall be paid through bank or ECS or online transfer.

(iii) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour

(iv) The contractor shall obtain from the junior Engineer or any other authorized representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage cum-Muster Roll" as the case may be in the following form:-

"Certified that the amount shown in column No……has been paid to the workman concerned through bank account of labouron……at……."

9 **Modifications as per DG, CPWD OM no. DG/SE/CM/CON/285 dated 04/06/2015:-**

a. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registration or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW welfare board and program chart(time and progress) within the period specified in schedule 'F' .

b. As per recently introduced clause 7A, no running account bill shall be paid for the work till the applicable labour license, registration with EPFO, ESIC and BOCW welfare board whatever applicable are submitted by the contractor to the Engineer-in-charge.

c. The contractor shall also comply with provision of the interstate migrant workman (regulation of employment) and condition of service Act 1979.

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING

The Executive Engineer (E), DED-21, CPWD, IP Bhawan, New Delhi (Ph. No. 011-23370815) on behalf of President of India invites online percentage rate bids **from CPWD approved and eligible contractors of appropriate class in Buildings & Roads category** for the following work:-

Sl. No.	NIT No.	Name of work & Location	Estimate Cost put to bid	Earnest Money	Period of completion	Last date & time of submission of bid and other Document as specified in the nit	Time & date of opening of eligibility criteria
1	2	3	4	5	6	7	8
1	**205/EE(E)/DED-21/2026-27**	ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)	**₹ 9,32,366/-**	**₹ 18,647/-**	**01 Months**	Up to **02.59 PM** On **30.10.2026**	**at 03.00 PM** on **30.10.2026**

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. This information and Instructions for bidders posted on website shall form of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website **http://www.etender.cpwd.gov.in or cpwd.gov.in free of cost.**
4. But the bid can only be submitted after **deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer (E), 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 commericial Bank towards EMD in favour of ***Executive Engineer (E), ED-IV*****as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD** and other documents as specified.
5. Those contractors who are not registered or have not updated their profile on the website mentioned above are required to get registered/ update their profile behforhand. The necessary training materials including the videos with step to step process are available on download section of http://eternder.cpwd.gov.in
6. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations/ transactions on the e-tendering portal/ website and the bidder should download and install the eMsigner on their system as per instructions available on download section of **http://etender.cpwd.gov.in.**
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contract 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).

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

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

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

I. Insurance Surety Bonds, Demand Draft/Account Payee Banker's Cheque/FDR/Bank Guaranteee of any commercial bank against EMD **(drawn in favour of Executive Engineer (E), ED-IV, CPWD, New Delhi)**

II. Receipt for deposition of original EMD issued from division office of any Executive Engineer, (including NIT issuing EE/AE/AAO), CPWD

III. Enlistment Order of the Contractor

IV. 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 bid documents.

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

V. ERP training Certificate. (As per Office Memorandum No. DG/Enlist. Rules-2023/ 10 Dt.22.04.2024.)

VI. The tender of the agency shall be opened on uploading of valid electrical license from competent authority in the name of the contractor or the Undertaking regarding the same. The contractor shall be allowed to participate in the tender with an Undertaking that they will either obtained valid electrical license at the time of execution of electrical work or associate contractors having valid electrical license of eligible class.

<u>Note:</u>

1. **The agency will procure materials from OEM/ Authorized dealer during agreement period and tax paid invoice duly verified by the JE (E)/ AE (E) will be submitted along with Bill.**
2. **Material shall be supplied within 15 days at site after award of work otherwise action may be inititated as per CPWD terms & condition norms.**
3. **Prior approval of make has to be taken from competent authority before supply of material.**

Executive Engineer (E)
DED-21, CPWD,
New Delhi.

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

CPWD-6 FOR E-TENDERING

1. Online **Percentage Rate Bids**are invited on behalf of the President of India **from CPWD approved and eligible contractors in Buildings & Roads category of appropriate class** for the following work of: **"Name of Work - ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)"**

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

In case the last date of submission of bids 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 **₹ 9,32,366/-.** This estimate, however, is given merely as a rough guide.

1.1.1 ~~The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.~~

1.2 Intending bidders (spcialized firms/agencies) 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

1.2.1 ~~Conditions for Non-CPWD registered contractors only, if bids are also open to non-CPWD Contractors. For works estimated cost upto tendering limit of class -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 costing not less than `……. or two similar works each costing not less than ` …..or one similar work costing not less than ` …… Similar work shall mean works of "……" The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of bids.~~

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

~~(iii) 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 Rs ……..executed 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 **01 Month** from the date of start as defined in schedule 'F' or from the first date of handing over of the site whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

4. The site for the work is available.

Or

~~(i) 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~~

Or

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

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website **https:// etender.cpwd.gov.in or www.cpwd.gov.in 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 or Bankers Cheque or Fixed Deposit Receipts or/ and Bank guarantee (for balance amount as prescribed) from any of the commericial Bank (drawn in favour of **Executive Engineer (E), ED-IV, CPWD, New Delhi**)shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

   A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee 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 **03:00 PM on 30.10.2026**

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

   i) The bidder is found ineligible.
   ii) The bidder does not upload scanned copies of all the documents stipulated in the biddocument.
   iii) If any discrepancy is noticed between the documents as uploaded at the time of submissionof bid and hard copies as submitted physically by the lowest bidder in the office of bidopening authority.
   iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote anypercentage above/below on the total amount of the tender or any section / sub head inpercentage rate tender, the tender shall be treated as invalid and will not be considered aslowest 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 internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)"** 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 bid in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.

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

15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidder 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 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 previous 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 bid for the works shall remain open for acceptance for a period of **30 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 of 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 withour prejudice to any other right of 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 Tenderer/contractor, on acceptance of his tender 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 tender as uploaded at the time of invitation of tender and rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

(b) Standard **C.P.W.D Form 7** (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 tenders for the composite work. The cost of bid document and earnest money will be fixed with respect to the combined estimated cost put to bid for the composite bid.~~

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

~~**Part A**: CPWD-6, CPWD-7 including schedule A to F for the major component of the work, standard general conditions of contract for maintenance works 2020 as amended/modified up to date.~~

~~**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 (SE/EE in charge of major component shall also be competent authority under clause 2 and clause 5 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 bidder must associate with himself, with agencies as per NIT conditions~~

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

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

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

~~20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The Earnest Money will become part of the security deposit of the major components of work.~~

~~20.1.8 The main contractor has to associate agency(s) for spescialized components(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 relevent component(s).~~

~~20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of minor component. The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of 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 agencyr(s) associated by him). Copy of such MOU shall be submitted to EE/DDH in-charge of each relevant component as well as to EE in-charge of major component. In case of change of associate contractor, the main contractor has to enter into MOU 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.~~

~~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 uploade 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. 011-23370815, 8826271608 e-mail id deleeeed4.cpwd@nic.in, ediv_cpwd@yahoo.com or ERP help line 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 their own interest.**

Executive Engineer (E)
DED-21
CPWD, New Delhi

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

INFORMATION AND INSTRUCTION FOR EXECUTIVE ENGINEER FOR E-TENDERING

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

FORMAT FOR RECEIPT

Receipt of deposition of original EMD
(Receipt No…….. Date……..)

Name of work : **"ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)"**

1. NIT No.: **205/EE(E)/DED-21/2026-27**
2. Estimated Cost: ₹ **9,32,366/-**
3. Amount of Earnest Money Deposit: **₹ 18,647/-**
4. Last date of submission of bid **30.10.2026 upto 02.59 PM**

(*To be filled by NIT approving authority/ EE at the time of issue of NIT and uploaded along with NIT)

1. Name of contractor ----------#
2. Form of EMD ----------#
3. Amount of Earnest Money Deposit ----------#
4. Date of submission of EMD----------#
5. Mobile No.----------#

Signature, Name and Designation of EMD
Receiving officer (EE/AE(P)/AE/AAO)
Along with office stamp

#To be filled by EMD receiving E.E.

3. The Executive Engineer receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting EE. The receipt may be issued by the AE(P)/AE/AAO.
4. The Executive Engineer receiving original EMD shall also intimate tender inviting Executive Engineer about deposition of EMD by the agency by email/fax/telephonically.
5. The original EMD receiving Executive Engineer shall release the EMD after verification from the e-tendering portal website (www.tenderwizard.com>tender free view>advance search>awarded tenders) that the particular contractor is not L-1 tenderer and work is awarded.
6. The tender inviting Executive Engineer will call for original EMD of the L-1 tenderer from EMD receiving Executive Engineer immediately.

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

के.लो.नि.वि./C.P.W.D.-7

भारत सरकार **GOVERNMENT OF INDIA**
केन्द्रीय लोक निर्माण विभाग **CENTRAL PUBLIC WORKS DEPARTMENT**

राज्यSTATE :- **New Delhi.** परिमंडलCIRCLE:- **Delhi Circle-II**

शाखाBRANCH :- **B & R** मंडल DIVISION :- **DED-21**

ADG (D)

सिविल कार्यो के लिए प्रतिशत दर निविदा एवं संविदा
Percentage Rate Bids& Contract Works

(A) कार्य के लिए निविदा :Tender for the work of **:--**

Name of Work: ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)

(i) To be submitted /uploaded at www.etender.cpwd.gov.in **By 02.59 PM on 30.10.2026**

(ii) To be opened on line in presence of tenders who may be present at **03.00PM on 30.10.2026 in the office of Executive Engineer, DED-21, CPWD, New Delhi.**

Issued to …….. Tender document made available Online to the agency.

Signature of the Officer issuing the documents. Online uploading authority

Designation: Executive Engineer, DED-21, CPWD

Date of issue……. As per NIT

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

निविदाT E N D E R

मैंने/हमने कार्य के लिए निविदा आमंत्रण सूचना, अनुसूची क,ख,ग,घ, ड., और च, लागू विनिर्देश, नक्शे एवं डिजाइन, सामान्य नियम एवं निर्देश, ठेके के उपबंध, विशिष्ट शर्ते, दर अनुसूची एवं अन्य कागजात तथा ठेके की शर्तो में दिए गए नियम तथा निविदा कागजात में उल्लिखित अन्य बातों को पढ़ व जांच लिया है।

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, clause 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 documents for the work.

मै/हम, एतत्द्वारा भारत के राष्ट्रपति के लिए अनुसूची 'च' में विनिर्दिष्ट समय के भीतर विनिर्दिष्ट कार्य, यथा–मात्राओं की अनुसूची तथा सभी संबंधित विनिर्देशों, डिजाइनों, नक्शों के अनुरूप तथा सामान्य नियमावली के नियम–1 और ठेके की शर्तो के खंड–11 में उल्लिखित लिखित अनुदेशों एवं ऐसी सामग्रियों, जो प्रदान की जाती है और उसके संबंध में, ऐसी शर्ते जो लागू हो, के अनुरूप निष्पादन हेतु निविदा देता हूं/देते है ।

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.

हम निविदा को, इसके खोले जाने की अन्तिम तारीख से **30 दिन (तीस दिन)** के लिए खुला रखने तथा इसकी शर्तो एवं निबंधनों में किसी प्रकार का परिवर्तन न करने के लिए सहमत हैं।

We agree to keep the tender open for **Thirty Days (30) days** from the due date of its opening and not to make any modifications in its terms and conditions.

रु0 .....की धनराशि, धरोहर राशि के रुप में नकद/ट्रेजरी चालान रसीद/अनुसूचित बैंक की मॉग जमा रसीद/अनुसूचित बैंक की सावधी जमा रसीद/ अनुसूचित बैंक के डिमांड ड्राफट/अनुसूचित बैंक द्वारा जारी बैंक गारंटी के रुप में एतद्द्वारा अग्रेषित की जाती है। यदि मैं/ हम निर्धारित निष्पादन गारंटी को निर्धारित समय अवधि में प्रस्तुत करने में असफल रहते हैं तो मैं/हम यह मंजूर करते हैं कि भारत के उक्त राष्ट्रपति या उनके कार्यालय के उत्तराधिकारी किसी अन्य अधिकारी या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना उक्त धरोहर राशि जब्त करने के लिए पूर्णतया स्वतंत्र होगें। इसके अलावा, यदि मैं/हम विनिर्दिष्ट कार्य प्रारम्भ करने के असफल रहते हैं तो मैं/हम यह मंजूर करते हैं कि भारत के राष्ट्रपति या उनके कार्यालय के उत्तराधिकारी कानून में उपलब्ध किसी अन्य अधिकार या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना उक्त धरोहर राशि, तथा निष्पादन गारंटी जब्त करने के लिए पूर्णतया स्वतंत्र होगें अन्यथा उक्त धरोहर राशि निविदा कागजात के अनुसार उसमें निहित शर्तों व निबंधनों के अनुसार कार्यों के निष्पादन एवं आदिष्ट विचलनों को अनुसूची 'च' में वर्णित प्रतिशत से अनधिक व निविदा प्रपत्र के खण्डों 12.2 व 12.3 में निहित प्रावधानों के अनुसार निश्चित की जाने वाली दरों पर उस सीमा से अधिक के विचलनों के करने के लिए उनके द्वारा प्रतिभूति–निक्षेप के रुप में रोक ली जायेगी। इसके अतिरिक्त मैं/हम सहमत हैं कि बयाना राषि या बयाना राषि तथा उपर्युक्त निष्पादन गारंटी जब्त हो जाने के मामले में मुझे/हमें कार्य की पुनः निविदा प्रक्रिया में भाग लेने से रोक दिया जाएगा।

A sum of **₹ 18,647/-** **is here by forwarded in** Cash /Receipt Treasury Challan /Deposit at call Receipt of a Scheduled Bank /fixed deposit receipt of schedule bank/demand draft of a Scheduled bank/Bank Guarantee issued by a schedule bank, as earnest money. 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 his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money 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 work, the Engineer-in-charge shall be free to forfeit the entire amount of earnest money deposited/performance guarantee.

मैं/हम एतत्द्वारा घोषणा करते है कि मै/हम निविदा कागजातों, नक्शों और कार्य से संबंधित अन्य अभिलेखा को गुप्त/गोपनीय कागजात के रूप में रखेगे और उनसे प्राप्त/ली गई जानकारी किसी अन्य को, जिन्हें मैं/हम सूचित करने के लिए प्राधिकृत हो, से भिन्न किसी को,नहीं बताएगें या जानकारी को किसी ऐसे रूप में प्रयोग नही करेंगे जो राज्य की सुरक्षा के लिए प्रतिकूल हो।

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 authorised to communicate the same or use the information in any manner prejudicial to the safety of the State.

तारीखDated .....

ठेकेदार के हस्ताक्षरSignature of Contractor
डाक पताPostal Address #

साक्षीWitness : #
पताAddress: #
उपजीविकाOccupation : #

स्वीकृति /ACCEPTANCE

मै भारत के राष्ट्रपति की ओर से तथा उनके लिए रु0 :- *---------- (रूपए*----------) की राशि के लिए उपर्युक्त निविदा (अधोलिखित पत्रों के अनुसार परिवर्तित) स्वीकार करता हूं।

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

(Rupees*_____)

नीचे दिए गए पत्र इस ठेका करार का हिस्सा होंगे।

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

I) *

ii) *

iii) *

भारत के राष्ट्रपति की ओर से तथा उनके लिए
For & on behalf of the President of India.
हस्ताक्षरSignature .....

तारीखDated *.....

पदनामDesignation .....

*** To be filled in by EE**

#To be filled by the contractor

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

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सिविल कार्यों' की अनुसूचियां SCHEDULES FOR ELECTRICAL WORKS

SCHEDULE 'A'

Schedule of quantities (as per PWD-3) : **Pages – 42 – 44**

SCHEDULE 'D'

Extra Schedule for specific requirements /documents for the work, if any

SCHEDULE 'E'

Refrence to General Conditions of contract	Applicable GCC is Maintenance Works 2023 as modified & corrected upto previous day of the last date of submission of the tender.
Name of work:	ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)
Estimated cost of work:	**₹ 9,32,366/-**
(i) Earnest money:	**₹ 18,647/-**
(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% tendered value of the work
SCHEDULE 'F'	
General Rules & Directions:	Applicable GCC is Maintenance Works 2023 as modified & corrected upto previous day of the last date of submission of the tender.
Officer inviting tender -	Executive Engineer (E), DED-21, CPWD, New Delhi
Definitions:	
2(vi) Engineer-in-Charge	Executive Engineer (E), DED-21, CPWD, New Delhi
2(viii) Accepting Authority	As per delegation of financial power
2(x) Percentage on cost of materials and labour to cover all overheads and profits.	15%
2(x) (b) Standard schedule of Rates:	**DSR (E&M) 2025** for Electrical works with the amendments there to issued previous day of the last date of submission of the tender.
2(xi) Department	**Central Public Works Department**
9(ii) Standard CPWD contract Form General Conditions of Contract Maintenance Works 2023, CPWD Form 7/ 8.	Standard CPWD contract Form General Conditions of Contract Maintenance Works 2023, CPWD Form 7/ 8 as modified & corrected upto previous day of the last date of submission of the tender.

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

CLAUSE 1	
i) Time allowed for submission of Performance Guarantee, Programme chart(Time and progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW welfare board or proof of applying thereof from the date of issue of letter of acceptance, in days	07 Days
(iii) Maximum allowable extension with late @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above	**03 Days**
CLAUSE 2	
Authority for fixing Compensation under clause 2	Superintending Engineer, DC-II, CPWD, I.P. Bhawan, New Delhi
CLAUSE 2A	
Whether Clause 2A shall be applicable	Not Applicable
CLAUSE 5	
Number of days from the date of issue of letter of acceptance for reckoning date of start	7th Day or actual date of PG deposit with late fee

S. No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be withheld in case of non achievement of milestone
1.	1/8th (of whole work)	1/4th (of stipulated period)	In event of non- achieving the desired progress 1% of the tendered value of the work shall be withheld for the failure of each milestone.
2.	3/8th (of whole work)	1/2th (of stipulated period)	
3.	3/4th (of whole work)	3/4th (of stipulated period)	
4.	Complete work	stipulated period	

Authority to decide :	
Time allowed for execution of work	**01 Month**
(i) Extension of time	**Executive Engineer (E), DED-21**
(ii) Rescheduling of mile stone	**Superintending Engineer, Delhi Circle-II**
(iii) Shifting of date of start in case of delay in handing over of site	**Superintending Engineer, Delhi Circle-II**

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

PROFORMA OF SCHEDULES 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**	Site is Available in parts.	
Part B	**Portions with encumbrances**		
Part C	**Portions dependent on work of other agencies**		

CLAUSE 5	
Applicable clause 5/ Clause 5A	Clause 5
CLAUSE 6/6A/EMB Whether applicable	**Electronic Measurement Book (EMB) through CPWD ERP Portal & modified as per OM No. DG/CON/Maintenance 2023/19 Dated 25.03.2026**
CLAUSE 7	
Gross work to be done together with net payment/ adjustment of advances for materialcollected, if any, since the last such payment for being eligible to interim payment	
CLAUSE 7A	
(a) No Running Account Bill/ **Final Bill** shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by thecontractor to the Engineer-in-Charge. (b) The following documents shall also be part ofthe bill submitted by the contractor (thesedocuments shall be owned by the contractor)before making payment:- 1. Details of person employed with date of theiremployment up to previous month. 2. Documents of payment made to the employeesdirectly into their bank accounts up to previousmonth. 3. Documents of attendance through biometricattendance or other mode up to previous month. 4.Documents of deposition of EPF and ESIdeductions in the employee's accounts up toprevious month. 5. Any penalty imposed on the agency for delay indisbursing payment and deposition of EPF andESI deductions in the employee's accounts upto previous month.	Yes

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

6. Any other document(s) required as per statutoryrequirements and/or as directed by Engineer-in-Charge. (c) In case, any of the documents submitted by thecontractor is found false/forged at a later date,action for debarment of contractor will be takenby the SE/CE concerned.	
CLAUSE 7B for construction/EPC/Maintenance works for payment to third party	Yes
CLAUSE 10A	
List of testing equipment to be provided by the contractor at site lab. **1. …… 2……. 3……..** **4…… 5……. 6…….**	
CLAUSE 10 (B) (ii)	
Whether clause 10 B(i) shall be applicable	Yes/~~No~~
CLAUSE 10C	
Component of labour expressed as percent of value of work :	25%
CLAUSE 10CC Clause10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in the next column.	12 Months
CLAUSE 11	
Specifications to be followed for execution of work	CPWD specifications of electrical works, Part-I (Internal)-2023, (External)-2023, Part-III , Lift & Escalators - 2003, Part –IV (substation)-2013, Part-VII (DG sets)-2013, Part-V (wet riser & sprinkler system) 2020, Part-VI (Fire Detection and Alarm System) 2018, HVAC works 2017 and any other relevant amended up to date
TYPE OF WORK :	**MAINTENANCE WORK**
CLAUSE 12	
Deviations	The completion cost shall, in no case, exceed 1.5 times the contract amount. Contractor will devise a system to keep a watch on quantum of work taken up vis-a-vis balance items required to complete defined scope of work and will give the alerts to Engineer-in-Charge before taking up extra item(s), deviation(s) so -that completion cost does not exceed above Iimit. Work executed beyond above limit will neither be recorded nor be paid. Engineer-in-Charge will verify and confirm the alerts before assigning deviation(s) and / or extra item(s) to the contractor. lf additional work(s) is required to complete defined scope of work beyond above limit then Engineer-in Charge may take up such work(s) separately. The contractor will not have any claim(s) whatsoever on this account.
Clause 12.2 & 12.3 Deviation limit beyond, which clause 12.2 & 12.3 shall apply:	**No Limit**
CLAUSE 16 **Competent authority for deciding reduced rates**	**SE, DC-II, CPWD New Delhi; upto 5% of the contract value & exceeding with prior approval of ADG (D).**

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

CLAUSE 18		
List of mandatory machinery, tools & plants to be deployed by the contractor at site: **(As Applicable)** **As per actually required at site and shall be arranged by the contractor**		
----------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	(i) Conciliter - Additional Director General (RD) (ii) Arbitrator Appointing Authority - Superintending Engineer, DC-II (iii) Place of Arbitration - New Delhi.	

CLAUSE 32
Requirement of Technical Representative(s) and Recovery Rate

S.No	**Requirement of Technical**		**Minimum experience (Years)**	**Desigation Technical Staff**	**Rate at which recovery shall be made from the contractor in the event of not fulfilling**
	Qualification	**Number**			
1	Graduate Engineer or Diploma Engineer	1 (Electrical)	2 or 5 respectively	Project Manager Cum Planning/ Quality / Site/billing Engineer	`15000/- (Rupees Fifteen Thousand only) Per month per person

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

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

Note : Integrity Pact shall be valid for the work of more than 300 Crores

FORM OF EARNEST MONEY (BANK GUARANTEE)

WHEREAS, contractor..... (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated ..... (Date) for the construction of ..... (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we ..... (name of bank) having our registered office at ..... (hereinafter called "the Bank") are bound unto ..... (Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. ..... (Rs. in words .....) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ..... day of .....20.....
THE CONDITIONS of this obligation are:

(1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;

(2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:

- (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR
- (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor, OR
- (c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor, OR
- (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge **either** up to the above amount **or part thereof** upon receipt of his first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by his is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date* ..... after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank notlater than the above date.

DATE .....
WITNESS .....

SIGNATURE OF THE BANK
SEAL
(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender

(**On Non-judicial stamp paper of minimum Rs. 100/-)**

(Guarantee offered by Bank to CPWD in connection with the execution of contract)

Form of Bank Guarantee for Earnest Money Deposit /Peformance Guarantee/ Security Deposit/ Mobilization Advance

1. Whereas the Executive Engineer……. (name of division) …….CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under ……(NIT Number) ……dated…….for……..(name of work)…….. The Government has further agreed to accept irrevocable Bank Guarantee for Rs…….. (Rupees…….only) valid upto…….(date)*…… as Earnest Money deposit from…….(name and address of contractor) ……(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.
2. We, …….. (indicate the name of bank) …….(herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs…….. (Rupees…….only) on demand by the Government within 10 days of the demand.
3. We, ……..(indicate the name of the Bank)……, do hereby undertake to pay the amound due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs…… (Rupees……..only).
4. We, ……..(indicate the name of Bank)……, further undertake to pay the government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under the contractor shall have no claim against us for making such payment.
5. We,…….(indicate the name of Bank) ……, further agree that the Govermment shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers excercisable by the government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the

Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

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

Date…….

Witness.:

1. Signature …….
   Name and Address

Authorized signatory
Name
Designation
Staff Code No.
Bank seal

2. Signature…….
   Name and address

Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two /three bids system from the date of submission of tender.
*****In Paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/ security deposit/mobilization advance, as the case may be.***

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

CONDITIONS FOR ENGAGEMENT OF ASSOCAITED AGENCIES FOR E&M WORKS

1. The lowest tenderer have to submit electrical contractor license and experience certificate issued by competent authority within two weeks of award of work in case he himself is eligible for carrying internal EI & other specialized E&M work as per eligibility criteria, then he will associate specialized agencies as per eligibility criteria.The main contractor shall submit the details of such specialized agencies to be associated in **Annexure-A** within two weeks of award of work. Following documents for association of electrical contractors for internal EI work or other specialized E&M Works shall be submitted by main contractor to the **Executive Engineer (E), DED-21, CPWD, IP Bhawan, New Delhi** for deciding the eligibility:-

A. Willingness from an eligible electrical contractors/specialized agency to get associated with the applicant for execution of the electrical component of works as per the conditions set out in the MOU as per the proforma given in Annexure-Ato be signed between the contractor and the associated eligible electrical contractor/ specialized agency.

B. For association of Electrical contractor for electrical works:-

(i) Copy of their registration documents with CPWD (if applicable)
(ii) Copy of Electrical Contractor's License issued by competent authority
(iii) Copy of Goods and Service Tax (GST)Registration
(iv) Copy of ESIC and EPF Registration.

OR

For association of Electrical contractor for specialized E&M works :-

(i) Copy of Completion Certificate as per eligibility criteria & Form 16A/26AS.
(ii) Copy of Goods and Service Tax (GST)Registration
(iii) Copy of ESIC and EPF Registration.

(Copy of all above documents will be self attested by the main agency and associated agency.)

C. MOU signed on Rs. 100/- with eligible electrical contractor/specialized agency meeting the eligibility criteria and same as specified for specialized works. The MOU in the enclosed form as per **Annexure-B**shall be signed by both the parties i.e. contractor as 1st party and associated electrical contractor as 2ndparty.

2. In the event of the concerned E&M agency not performing satisfactorily or failure of associate to complete the E&M work, the contractor on the written direction of the department, shall remove the Associate deployed on the work and shall submit name of new associate who fulfill the conditions mentioned in NIT to execute the leftover work without any loss of time or variation in cost to the department in this regard. Contractor shall meet all the guarantee for the equipments already supplied for which payment has been released by the Deptt. inpart. If any equipment supplied for the work, during the currency of the earlier Associate and paid partly by the Deptt., becomes redundant /not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the contractor shall be

liable for replacement of the equipment(s) at no cost to Department.No change of Associated Electrical Contractor /Specialized Agency will be allowed without prior approval of the **Executive Engineer (E), DED-21, CPWD, IP Bhawan, New Delhi**.

3. The contractor/ specialized agency shall be responsible and liable for proper and complete execution of the Electrical work and ensure coordination and completion of both civil and electrical work.
4. The associate contractor/specialized agency along with contractor shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.
5. The associate or contractor/specialized agency shall sign a tripartite Agreement/Contract along with the main tenderer and the departmental officer, for technical compliance of specification, guarantee etc.
6. The associate or contractor/ specialized agency shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.

Contractor's signature

Annexure-A

WILLINGNESS CERTIFICATE

Name of work : **ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)**

I hereby give my willingness to work as Associate Specialized Agency for electrical component of the above mentioned work.

I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer-in-Charge. Also I will engage full time technically qualified supervisor/engineer for the works. I will attend inspection of officers of the department as and when required.

Dated:

Signature of the Associate Specialized Agency

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

Annexure-B

MEMORANDUM OF UNDERSTANDING ON RS. 100/- NON-JUDICIAL STAMP

This Memorandum of Understanding (MOU) is madeon the_____at

Between

M/s _____(Main Contractor) having his registered office at__which expression shall unless repugnant to the subject or context include its administrators, successors and assigns.

And

M/s_____(Associate contractor) registered in CPWD as class: _____ Electrical contractor andhaving his registered office at _____ which expression shall unless repugnant to the subject or context include its administrators, successors and assign.

Whereas, the Central Public Work Department, have issued tender papers to quote for the following work to M/s(Main Contractor).

Name of work: ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)

Whereas, This Memorandum of Understanding has been entered into to execute the above work by the Main Contractor and Associate Contractor.

Whereas, both the parties have gone through and understood the various conditions andclauses of the tender and willingly agree to abide by them.

This MOU shall be valid till the duration of completion of above work and shall be extended if so required by the CPWD.

Now, therefore it is agreed between the parties here to as follows :-

1 The associated electrical contractor shall completely execute, perform and do all the works mentioned and described in the main agreement for its electrical components according to the specifications, terms and conditions etc. of the main agreement.

2 The associated electrical contractor shall execute and complete the works in all respect up to full satisfaction of the CPWD officers and attend to them during their inspection at site, meetings etc., whenever required by the CPWD officers.

3 The cost of electrical works executed by the associated electrical contractor will include the cost of all the materials, accessories, equipments, tools & plants, laborers technical persons required etc. in all respect.

4 The associated electrical contractor is responsible for getting recorded measurements and preparation, submissions & pursuance of payment of the bills of the work done for electrical portion of the main agreement.

5 The rate will be as per the schedule enclosed.

6 The Quantity will be as per actual measurement as received from CPWD to main contractor and the rate will be as per the mutually agreed.

7 The payment to associate contractor will be released after the payment to main contractor is made by the CPWD.

8 The technical staff required for the associate discipline shall be of associate contractor.

9 The guarantee of the installation after the completion of the work shall be responsibility of the associate electrical contractor as required by the CPWD.

10 Either party shall not repudiate the contract in mid way without the consent of each other.

Otherwise it will be treated as breach of agreement for any reason whatsoever.

11 The main agency shall be solely responsible for deferment & rescheduling of each milestone fixed as per contract documents and in such eventuality, the consequences arising out of the same rests on main agency.

12 The main contractor only shall be responsible for getting extension of delay regularized and liability what so ever flowing out shall lies with them. There shall be no direct or indirect impact on associate contractor.

13 TDS shall be deducted by the main contractor as per Income Tax law from associated agency. In case liability of tax other than Income Tax (Such as vat, service tax, or any other mechanism formed) is leviedon associated contractor then the main agency will reimburse it in full to associated agency.

14 For the items such as extra items, substitute items and new items other than the items of main agreement, if any incorporated in the work, and then the main contractor shall pay the full amount so approved to the associate contractor.

15 In case main contractor delays the payment to associated contractor after the payment isreleased by department to the main contractor then on receipt of delay in payment from associate contractor the CPWD shall directly make the payment to associated contractor.

16 The main contractor shall at their cost provide necessary requisite arrangement for storage of material.

17 Sand& cement used in the electrical work shall be provideby main contractor.

18 Security Deposit as deducted by the CPWD will be reimbursed by main contractorto associate contractor. However associated electrical contractor will deposit 2½% of Agreement amount of **Rs. (…….)**in shape of FDR towards S/D to be retained by main contractor which will refunded to electrical contractor after completion of electrical work.

19 The Income tax, Commercial tax and labour cess tax deducted by the CPWD from the bills of electrical work shall be reimbursed by the main contractor in favour of the associated electrical contractor accordingly.

In witness whereof we have put our hand seal on date_____.

Enclose: - Schedule of rates.

Signature	Signature
(Associate Contractor)	(Main Contractor)
Address:_____	Address:_____

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

TERMS AND CONDITIONS FOR INTERNAL AND EXTERNAL ELECTRICAL WORKS

General Commercial & Technical Conditions:

1.0 All the works shall be carried out as per CPWD specifications of electrical works, Part-I (Internal)-2023, (External)-2023, Part –IV (substation)-2013, Part-VII (DG sets)-2013, Part-V (wet riser & sprinkler system) 2020, Part-VI (Fire Detection and Alarm System) 2018, HVAC works 2017 and any other relevant amended up to date and should also comply with relevant provisions of the Indian Electricity Rules and Acts as applicable, amended up to date.

2.0 The contractor is advised to visit the site of work to have an idea of the execution of work; failure to do so shall not absolve their responsibility to do the work as specified in agreement.

3.0 **Rates:**

3.1. The work shall be treated as on works contract basis and the rates tendered shall befor complete items of work (except the materials, if any, stipulated for supply by the department) inclusive of all taxes (including works contract tax, if any), duties, and levies etc. and all charges for items contingent to the work, such as packing, forwarding, insurance, freight and delivery at site for the materials to be supplied by the contractor, watch and ward of all materials (including those supplied by the department, if any) for the work at site etc

3.2. Prices quoted shall be firm.

4.0 **Works to be done by the contractor:**

Unless and otherwise mentioned in the tender documents, the following works shall be done by the contractor, and therefore their cost shall be deemed to be included in their tendered cost:-

(i) Foundations for equipments and components where required, including foundations bolts.

(ii) Cutting and making good all damages caused during installation and restoring the same to their original finish.

(iii) Sealing of all floor openings provided by him for pipes and cables, from fire safety point of view, after laying of the same.

(iv) Painting at site of all exposed metal surfaces of the installation other than pre-Painted, items like fittings, fans, switchgear / distribution gear items, cubicle switch board etc. Damages to finished surfaces of these items while handling and erection, shall however be rectified to the satisfaction of the Engineer-in-Charge.

(v) Testing and commissioning of completed installation.

(vi) Storage space for all equipments, components and materials for the work.

5.0 **Storage and Custody of Materials:**

The contractor has to make his own arrangement for the storage of the material at site &necessary watch and ward of the electrical installation during the execution of work till the same is handed over to the department. No extra payment will be made on this account. The storage space shall however be arranged by the department at site, if available.

The main contractor shall arrange for proper storage of the electrical fans and fittings at site and that double lock system shall be arranged for the fans and fittings after receipt at site until the time they are taken for installation. The contractor shall however be responsible for proper storage and safe custody of the same till their installation and handing over to the department.

6.0 **Electric Power Supply and Water Supply:**

Power and water supply will be arranged by the contractor at the site for installation purpose.However, for testing purpose after complete installation of the electrical items, electricity supply will be made available free of cost to the contractor. Contractor will take due care to ensure safety of electrical installation during execution of work.

7.0 **Tools for handling and Erecting:**

All tools and tackles required for handling of equipments and materials at site of work as well as for their assembly and erection and also necessary test instruments shall be the responsibility of the contractor.

8.0 **TERMS OF PAYMENTS**

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

(i) 70% after initial inspection and delivery at site in good condition of pro-rata basis.
(ii) 20% after completion of installation in all respects.
(iii) Balance 10% will be paid after testing, commissioning trial run and handing over to the department for beneficial use.

9.0 **Co-ordination with other agencies:**

The contractor shall co-ordinate with all other agencies involved in the building work so that the building work is not hampered due to delay in his work. Recessed conduit and other works, which directly affect the progress of building work, should be given priority.

9.1. **Care of buildings:**

Care shall be taken by the contractor to avoid damage to the building during execution of his part of the work. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove, at his costs, all unwantedand waste materials arising out of his work, from the site.

10.0 **Structural Alterations to Buildings:**

(i) No structural member in the building shall be damaged/ altered, without prior approval from the competent authority through the Engineer-n-charge.
(ii) Structural provisions like openings, cutouts, if any, provided by the department for the work, shall be used. Where these required modifications or fresh provisions are required to be made, such contingent works shall be carried out by the contract at his cost.
(iii) All such openings in floors provided by the department shall be closed by the contractor after installing the cables/conduits/rising mains etc. as the case may be, by any suitable means as approved by the Engineer-in-charge without any extra payment.
(iv) All chases required in connection with the electrical works shall be provided and filled by the contractor at his own cost to the original architectural finish of the buildings.

11.0 **Addition to an installation:**

Any addition, temporary or permanent, to the existing electrical installation shall not be made without a properly worked out scheme/design by a qualified Electrical Engineer to ensure that such addition does not lead to overloading, safety violation of the existing system.

12.0 **Work in occupied buildings:**

(i) When work is executed in occupied buildings, there would be minimum of inconvenience to the occupants. The work shall be programmed in consultation with the Engineer-in-charge and the occupying department. If so required, the work may have to be done even before and after the office hours.
(ii) The contractor shall be responsible to abide by the regulations or restrictions set in regard to entry into, and movement within the premises.
(iii) The contractor shall not tamper with any of the existing installations including their switching operations or connections there to without specific approval from the Engineer-in-charge.

13.0 **Drawings:**

(i) The work shall be carried out in accordance with the drawings and the tender documents and also in accordance with modification thereto from time to time as approved by the Engineer-in-charge.

(ii) All wiring diagrams shall be deemed to be 'Drawings' within the meaning of the term as used in Clause 11 of the conditions of contract **(PWD 7).** They shall indicate the main switch board, the distribution boards (with circuit numbers controlled by them), the runs of various mains and sub mains and the position of all points with their controls.

(iii) All circuits shall be indicated and numbered in the wiring diagram and the points shall be given the same number as the circuit to which they are electrically connected.

(iv) After award of the work, the firm will be required to submit the drawings for the proposed work including layout plan, conduit routes etc. Work will be carried out as per the approved drawings.

14.0 **Conformity to IE act, IE Rules, and standards:**

14.1. All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 1910 and Indian Electricity Rules, 1956 amended up to date (Date of call of tender unless specified otherwise). List of rules of particular importance to electrical installations under these General Specifications is given in Appendix C for reference.

15.0 **General requirements of components:**

15.1. **Quality of material:** All materials and equipments supplied by the contractor shall be new. They shall be of such design, size and materials as to satisfactorily function under the rated conditions of operation and to withstand the environmental conditions at site.

16.0 **Inspection of materials and equipments:**

16.1. Materials and equipments to be used in the work shall be inspected by the departmental officers. Such inspection will be of following categories:

(i) Inspection of materials / equipments to be witnessed at the Manufacturer's premises in accordance with relevant BIS /Agreement Inspection Procedure.

(ii) To receive materials at site with Manufacturer's Test Certificate(s)

(iii) To inspect materials at the authorized dealer's go downs to ensure delivery of genuine materials at site.

(iv) To receive materials after physical inspection at site.

16.2. Adequate care to ensure that only tested and genuine materials of proper quality are used in work shall be ensured by firm. The firm shall ensure that:

(i) Material will be ordered & delivered at site only with the prior approval of the department to ensure timely delivery.

(ii) As and when the order is placed for the fittings/ fixtures, cables, switchgears, poles, rising main, other main items etc, its copy shall be endorsed to the Engineer-in-charge.

(iii) The firm will be required to procure material like exhaust fans, MCB's & DB's, switches & sockets, wires & cables, conduits and switchgears etc directly from the manufacturer/ authorized dealers to ensure genuineness & quality and as per the approved makes only. Proof in this regard shall be submitted by the contractor if required by the department.

(iv) Inspection at factory or at go down of the manufacturer, as required, shall be arranged by the firm for a mutually agreed date. Certificate for genuineness of the fittings shall have to provided duly signed by the manufacturer's officer not below the rank of Regional Manager.

(v) Delivery of material shall be taken up only with the consent of department, after clearance of the material.

(vi) Department shall reserve the right to waive inspection in lieu of suitable test certificate, at its discretion.

16.3. Similarly, for fabricated equipments, the contractor will first submit dimensional detailed drawings for approval before fabrication is taken up in the factory. Suitable stage inspection at factory also will be made to ensure proper use of materials, workmanship and quality control.

17.0 **Ratings of components:**

17.1. All components in a wiring installation shall be of appropriate ratings of voltage, current and frequency, as required at the respective sections of the electrical installations in which they are used.

17.2. All conductors, switches and accessories shall be of such size as to be capable of carrying the maximum current, which will normally flow through them, without their respective ratings being exceeded.

18.0 **Conformity to standards:**

18.1. All components shall conform to relevant Indian Standard Specifications wherever existing. Materials with ISI certification mark shall be preferred.

18.2. Relevant Indian Standards including amendments or revisions thereof up to the date of tender acceptance shall be applicable in the respective contracts for respective items, firm to ensure its compliance.

19.0 **Interchangeability:**

Similar parts of all switches, lamp holders, distribution fuse boards, Switch gears, ceiling roses,brackets, pendants, fans and all other fittings of the same type shall be interchangeable in each installation.

20.0 **Workmanship:**

20.1. Good workmanship is an essential requirement to be complied with. The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.

20.2. Proper supervision/skilled workmen:The contractor shall be a licensed electrical contractor of appropriate class suitable for execution of the electrical work. He shall engage suitably skilled/licensed workmen of various categories for execution of work supervised by supervisors / Engineer of appropriate qualification and experience to ensure proper execution of work. They will carry out instruction of Engineer-in-charge and other senior officers of the Department during the progress of work.

20.3. Use of quality materials: Only quality materials of reputed make as specified in the tender will be used in work.

20.4. Fabrication in reputed workshop: Switch boards and LT panels shall be fabricated in a factory/workshop having modern facilities like quality fabrication, seven tank process, powder/ epoxy paint plant, proper testing facilities, manned by qualified technical personnel. These shall be as per make / item approved.

21.0 **Testing:**

All tests prescribed in this General Specification, to be done before, during and after installation, shall be carried out, and the test results shall be submitted to the Engineer-in-charge in prescribed Performa, forming part of the Completion Certificate and all Expenditure to be incurred for testing of samples e.g. cost of samples, packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor. The lab shall be approved by the ADG/SDG only.

22.0 **Commissioning on completion:**

After the work is completed, it shall be ensured that the installation is tested and commissioned.

23.0 **Completion plan and completion certificate:**

23.1. For all works completion certificate after completion of work as given in Appendix –E of CPWD Specification shall be submitted to the Engineer-in-charge.

23.2. Completion plan drawn to a suitable scale in tracing cloth with ink indicating the following, along with three blue print copies of the same shall also be submitted.

(i) General layout of the building.

(ii) Locations of main switchboard and distribution boards, indicating the circuit numbers controlled by them.

(iii) Position of all points and their controls.

(iv) Types of fittings, viz. fluorescent, pendants, brackets, bulk head, fans, exhaust fans etc.

(v) Name of work, job number, tender reference, actual date of completion, names of Division/ Sub-division and name of the firm who executed the work with their signature.

24.0 **Guarantee**

The installation will be handed over to the department after necessary testing and commissioning. The installation will be guaranteed against any defective design/workmanship. Similarly, the materials supplied by the contractor will be guaranteed against any manufacturing defect, inferior quality. The guarantee period will be for a period of 12 months from the date of handing over to the department. Installation/ equipments or components thereof shall be rectified/ repaired to the satisfaction of the Engineer-in-charge. The firm will be required to submit guarantee of fans and fittings from the manufacturer to the department.

25. **Supply of fittings, fixtures & other material:**

The procurement of material for the works will be programmed as per the progress of work in consultation with Engineer-in-Charge. The firm will be required to submit a detailed programme and prior to the procurement will seek approval of the department. The direction of the department regarding timing & necessity of getting such material will be final & binding on the firm.

26 **Acceptable makes**

The acceptable makes of the various equipments / components / accessories have been indicated in "Acceptable Makes annexed with this document. Prospective bidders are to the quote as per the acceptable makes specified in the tender documents. However, all departure from the specifications and also from the Acceptable Makes of the equipments / components have to be brought down in the forwarding letter to this tender. However, the departures taken by the bidders shall be evaluated at the time of Technical Evaluation, based on the documentary evidence and also their past performance & provenness in case of the alternative makes, if any.

Except for the departures brought down in the forwarding letter the tender, it is presumed that intending bidder confirms compliance to the tender specifications in all respect.

Successful bidder is to comply with the Public Procurement (Preference of Make in India), Order 2017 dated 15.06.2017 as amended upto date, while executing the contract. If any provision made elsewhere in this NIT, which in contravention with the Make in India policy, the latter shall have preference over the former. Engineer-in-charge will have the final authority to take appropriate decision in the matter.

27. Dismantled material shall be handed over to JE (E) by contactor and store at JE (E) store, if any.

Additional Conditions

1. The work shall be carried out strictly in accordance with CPWD specifications of electrical works, Part-I (Internal)-2023, (External)-2023, Part –IV (substation)-2013, Part-VII (DG sets)-2013, Part-V (wet riser & sprinkler system) 2020, Part-VI (Fire Detection and Alarm System) 2018, HVAC works 2017 and any other relevant amended up to dateand in accordance with Indian Electricity Rules, 1956, Indian Electricity Act, 1910 as amended upto date and as per instructions of the Engineer-in-Charge including as below and nothing will be paid extra.

2. All materials to be used on this work shall be ISI marked & shall be got approved from the Technical sanctioning authority/Engineer-in-Charge before installation at site unless otherwise not covered under ISI.

3. PVC insulated copper conductor wire used shall be multi-standard FR grade for which nothing extra shall be paid.

4. The work shall be carried out according to approved drawings/details which shall be subsequently issued to the successful tenderer for execution of work and as per instructions of Engineer-in-Charge who will have the right to change the layout as per requirement at site and the contractor shall not have any claim due to change in layout. The work shall be executed by skilled person Licensed by the approved authorities.

5. All damages done to the building during execution of electrical work shall be the responsibility of the contractor and the same will be made good immediately at his own cost to the satisfaction of the Engineer-in-Charge. Any expenditure incurred by the department in this condition shall be recovered from the contractor and decision of the Engineer-in-Charge about recovery shall be final.

6. The bad workmanship will not be accepted and defects shall be rectified at contractor's cost to the satisfaction of the Engineer-in-Charge. The programme of electrical works is to be co-ordinated in accordance with the building work and no claim for idle labour shall be entertained.

7. All the debris of the electrical works should be removed and the site should be cleared by the contractor immediately after the accruing of debris. Similarly any rejected material should be immediately cleared off from the site by the contractor.

8. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.

9. The size of conduit and wiring shall be got approved from the Engineer-in-Charge before taking up the execution.

10. The contractor shall make his own arrangement at his own cost for electrical / general tools and plants required for the work. Main Board and Main Distribution Board: The work shall be carried out according to the drawings / details are as approved by the Engineer-in-Charge. The contractor shall have to get the samples approved before the whole lot is brought to site and it shall include all inter connections etc. All termination of electrical cables in panel / feeder pillars DB's, cable-looping box etc. shall have to be done with proper thimbles / lugs using crimping process. Copper thimbles / reducer shall be used for copper cable and Aluminium cable nothing extra will be paid for the same.

11. All materials shall be supplied and used in items of works by the contractor should be of standard and approved quality. They should be got approved from the Engineer-in-Charge or his authorized representative before installation otherwise no payment will be made for an unapproved or rejected material used on the works and the same shall be removed at his cost from site or work.

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

12. The contractor shall have to prove bonafides of the make of materials by producing necessary documentary evidence. They are advised to obtain prior approval of Engineer-in-Charge for proposed make of material, before bringing material to site work.

13. Location of Light fixtures, cable routes etc. should be got approved from the Engineer-in-Charge before execution.

14. All interconnection in the panel, DB, cable-looping boxes shall be carried out with suitable cable commensurate with the current carrying capacity of incoming and outgoing cables complete with thimbles etc. as required for which nothing extra shall be paid.

15. All panels, DB's, cable-looping boxes will be numbered and marked with paint / name plate and nothing extra will be payable on this amount.

16. The contractors are advised to visit the site before quoting the rates.

17. All MCB, MCCB, MCB, DB's, RCBO's, RCCB with DB's shall be of same make / manufacturer.

18. Modular Switch / Socket's / Plates / Computer outlet / Telephone outlet and all accessories shall be of the single make only be provided. The contractor shall have to make the edges around the boxes wherever required shall have to be made by the contractor for which nothing extra shall be paid. The galvanized metal box shall be of the standard thickness as the GI boxes besides other requirement.

19. All the material should be ISI Marked unless otherwise clarification is not available.

20. All concealed works shall have to be done in the presence of Engineer-in-Charge or his authorized representative.

21. The contractor shall make his own arrangement for carriage of material from store of the JE (E) to the site.

22. The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department.

23. Notwithstanding the schedule of quantities, all items of interrelated works considered necessary to make the installation complete and operative are deemed to be included shall be provided by the contractor at no extra cost.

24. The connection, inter connection, earthing and inter earthing shall be done by the contractor wherever required and noting extra shall be paid on this account All repairs & patch work shall be neatly carried out to match with the original finish & all damages caused to the building installation during the execution of work shall have to be made good by the contractor immediately at his own cost to the entire satisfaction of Engineer-in-charge. In case contractor fails to comply with the instructions of the Engineer-in-charge, Engineer-in-charge shall be at liberty to get the work done by any other agency and recover such amount

as paid to the other agency from the bill(s) of the contractor. Contractor shall have no claim, whatsoever, on the extent of such amount.

25. The contractor shall have to provide the fish wire after removing the choking of the conduits. Even if subsequently the conduits are found chocked, the choking will be get removed and / or the new conduits shall be provided at the risk and cost of the contractor.

26. The makes of material have been indicated in the list of acceptable makes. No other make will be acceptable. The material to be used in the work shall be got approved from the Engineer-in-Charge before use at site. The Engineer-in-Charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.

27. No material shall be brought to site without the approval of Engineer-in Charge. All fixtures and fittings shall be procured just before the installation.

28. Wherever ceiling roses are not required to be provided in the light/fan/exhaust fan points, due to site conditions, the contractor shall usesuitablethree pin connectors for which nothing extra shall be paid. Wiring shall be carried out with FR wires.

29. Contractor shall provide polythene/PVC plastic cover for all MDB's/SDB's/DB's, panels, feeder pillars etc to protect them from rust/damages, during execution of work till the work is actually completed and handed over to the department.

30. Makes of all items that are not covered in the schedule of work/additional specificationsshall be got approved from the Engineer-in-charge and shall conform to relevant Indian Standard as applicable.

31. The contractor shall ensure that the staff employed by him for execution of the electrical work, possess the valid electrical license issued by competent authority. Consequences arising due to the default of the contractor in not complying with the above condition shall be the responsibility of the contractor.

32. Copper lugs shall be provided for terminating copper/aluminium/GI earth wire to all switchboards for which nothing extra shall be paid. All multi-stranded/stranded wires shall be terminated through copper lugs.

33. All concealed work and earthing shall be done in the presence of the Engineer-in-charge or his authorized representative.

34. The schematic diagram/dimensional drawings of the various electricalcubical panels shall be got approved from the Engineer-in-charge before fabrication and shall comply with CPWD specifications and Indian Electricity Rules.The panels shall conform to IS: 8623/1993. All panels shall be powder coated inside out, in shade approved by the Engineer-in-charge.

35. All floor-mounted panels shall be mounted on 75mmX75mmX6mm thick M.S. channel on all the sides. It shall have a continuous earth bus of the same size and material as the main phase running continuously along the length of the panel extending on either side for earth connection.

36. The doors of all cubicle panels shall be hinged type including those of bus bar chambers and cable alleys. The locking shall be with chrome plated metal key locks. All doors shall be earthed with copper conductor wire as approved by the Engineer-in-charge.

37. The work shall be carried out according to drawing approved by the Engineer-in-charge. The layout once approved can only be changed by the Engineer-in-charge as per requirement at site. It shall be the responsibility of the contractor to plan the layout and get the approval from the Engineer-in-charge before laying the conduits etc.

38. The MCB should be of the same make as that of MCB DB's and having a minimum breaking capacity of 10 KA. Contractor shall obtain approval of the Engineer-in-charge before procurement of MCB DB's.

39. All model of modular accessories required for the work shall be got approved from the Engineer-in-charge from among the approved makes. The base plate shall be preferably in sheet steel or otherwise in unbreakable polycarbonate. The cover plates shall be screw less type in shade approved by the Engineer-in-charge.

40. Contractor shall have to check the Site Order Book for any instructions of the Engineer-in-charge or his authorized representative and sign the site order book. He shall be bound to ensure compliance with the instructions recorded therein.

41. MCCBs shall be used with terminal spreaders and all terminals shall be shrouded to avoid direct contact.

42. All measuring and indicating instruments shall be protected through MCB's and isolating switches.

43. General arrangement drawing of the switchboard shall be got approved from the Engineer-in-Charge before commencement of manufacturing.

44. For the items like LT panels, feeder pillars and accessories, etc, the firm shall arrange for inspection in the factory and provide for all facilities for testing. The cost of the visit of Engineer-in-Charge or his representative shall be borne by department. However, firm will be responsible for arranging the inspections as required.

45. Conduit layout as per switching arrangement shall be prepared by contractor and got approved from the Engineer-in-Charge before slab casting.

46. Conduit and termination to SDB and main board adapter box i/c connection wires to MCB,s inter connection between SDB and main board etc shall be included in the tendered rates and nothing extra shall be paid for the same.

47. The contractor shall provide junction boxes / looping boxes of required sizes and such boxes shall be measured as part of conduit / batten wiring without any extra payment.

48. M.S. dash fastener shall be used for installation of fittings and fixtures in ceiling and for providing suspenders for the angle support, conduit, cable tray etc. for which nothing extra shall be paid

49. All CI/metal boxes & junction boxes should be cleaned properly and painted from inside before wiring & fixing the accessories.

50. The ventilation system drawing with all calculations and size of machine, size of duct etc. shall be got approved from Engineer-in-Charge before taken up of execution

51. The Unit shall have automatic force shut down provision in case of fire on receiving fire signal.

52. Cables:-
    (a) Cables shall be bought from manufacturer only as per approved NIT.
    (b) The length of the cables required shall be measured w.r.t. site condition and these shall be delivered in section of approved length only, to avoid jointing as far as possible.
    (c) Cable delivery shall be scheduled in consultation with department only.
    (d) All cable's shall be offered for inspection by department prior to dispatch, department reserve the right to wave of inspection so required in lien of proper test certificates.

Executive Engineer (E)
DED-21, CPWD,
New Delhi.

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Approved Make List

S.No.	Details of Materials / Equipments	Manufacturer's Name / Make
1	FRLS PVC insulated copper conductor single core cable for wiring. (ISI marked)	RR Kabel / Havells/ Polycab/Finolex
2	XLPE Aluminum / Copper Armoured/ Unarmoured Cable, telephone cable, Coaxial Cable/LAN Cable/ Submersible cable/ Fire Cable	RR Kabel / Havells/ Polycab/Finolex
3	MS Conduit (ISI Marked) with heavy duty MS conduit pipe accessories	BEC / NIC / AKG/ RMCON **(Note : The make of accessories will be same that of conduit pipe & will comply to IS / 4768 part 2 2003)**
4	PVC Conduit (ISI Marked) with heavy duty PVC conduit pipe accessories	AKG / BEC / Precision/ RMCON
5	Modular Switch, Socket/Telephone Socket/ Cable TV Socket/ Data outlet Socket / Fan Regulator/ G I Boxes Etc (Wiring Accessories) / Regulators/ Plug Top etc.	Legrand (Myrius)/ Schneider Electric (Unica) / Honeywell- MK (Blenze plus) / Wipro (North West – PLATIA)
6	GI pipe/ MS Pipe (Accessories for pipe shall be same make of pipe or as per approved by the Engineer-in-charge)	Tata / Jindal (Hissar) / Jindal Star/ Praksah Surya
7	D.W. Corrugated HDPE Pipe (ISI marked)	Dura plast / Triputi / Duraline/ Rex
8	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO's, MCB DB & Loose Wire Box	Schneider Electric Act19 / ABB / Siemens / LK/ Hager-H3/ Legrand
9	Moulded Case Circuit Breaker (MCCB) Thermal Release / Microprocessor based (Ics=Icu=100%)	Schneider Electric-NSX /Siemens / LK/ ABB/ Legrand
10	Wall/Exhaust/ Ceiling Fan/ Fresh Air Fan	Havells / Orient/Crompton/ Almonard
11	LED luminaries / Fittings / Strips	LT / Philips / Havells/ Regent
12	SMC Boxes	Sintex/ Hensel/ Neptune/ Stanlac
13	PVC Trunking	MK/ Honeywell/ Schneider/Legrand
14	MS painted /GI perforated cable tray	Venus/ Indiana Apex/ Steelway/AKG/Legrand/ Schneider
15	Panel/ Feeder Pillar	Tricolite/ Adlec/ Neptune/ Milestone/ Associated Switchgear & Projects Ltd./ Precision Power Control (Panel manufacturer shall be CPRI Approved within house fabrication plant with 7 tank pre-treatment process with powder coating plant and type test certified for short current rating of not less then 50 KA)
16	Analogue/digital Measuring Instruments (Voltmeter/ Ammeter/ Energy Meter/ KW/ PF/ Multi Function Meter)	AE/ L&T/ C&S/ Legrand/ABB
17	LED Type Indicating Lamps/ Push button	Schneider electric /L&T / Siemens/ C&S/ Legrand
18	Potential transformers/ Current Transformers	Automatic Electric/ Precise/ L&T/ Kappa
19	Selector Switch Schneider	Schneider Electric/ABB/ Siemens /LK/ Salzer

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20	Contactors	Siemens/Legrand /LK /Schneider /ABB
21	Connectors/ Terminal Blocks	Elmex/Connect well/Essen/as per OEM
22	Protection Relays/Timer/Controller	Minilec/ Areva/ L&T/ABB/ Schneider/Legrand
23	Bus Trunking, Rising Main and Tap off Box	Legrand/Schneider/Siemens/ABB
24	Glands / Lugs	Dowells/Comet/Jainson

NOTES:-

1. This to be ensured by the site officials that the above mentioned material to be installed at site has been procured by the contractor from manufacturer or their authorized dealer only and documentary proof for the same shall be attached with each bill.
2. In respect of materials for which approved makes are not specified above, then proposed makes shall be decided by the Engineer-in-Charge and as per sample approved before procurement & Installation.

Schedule of Work

Name Of Work: ARMO internal EI and Fans in GPRA under Enq. No. 462 & 1216 at Timarpur, Delhi. (SH: Providing and fixing of phase sequence corrector panel for pump rooms at Timarpur, Delhi.)

S.No.	Description Of Item	Qty.	Rate	Unit	Amount
1	Fabrication, Supply, installation, testing and commissioning of phase sequence corrector panel indoor type wall mounted ,compartmentalised having minimum depth of 800mm, totally enclosed, air-insulated having 3 phase input and 3 phase output Panel suitable for 415 V, 3-phase, 50 Hz,400 A TPN aluminium busbar system complete with suitable supports, insulation/shrouding, joints and interconnections, including separate neutral and protective earth busbars. heavy duty enclosure board with electronic circuit with contactor for maintaining to change / phase reversal and protection the load, fixing on the surface of wall cable and re-connection in the phase sequence corrector panel board on both incoming and outgoing side , panel fabricated from minimum 2.0 mm thick CRCA sheet with suitable structural frame, hinged and lockable doors, cable alleys, removable gland plates, internal partitions, complete with suitable gaskets, busbar supports and shrouds, internal power and control wiring would be 2.5 sqmm with FRLS copper wires, ferrules, terminal blocks, cable lugs, neutral and earth busbars, earthing and bonding, nameplates, danger plates i/c cutting cable ,making connection joint, thimbling & testing complete etc as required. (Panel drawing as per direction of Engineer-in-Charge.) The panel shall comprise the following sections/equipment, complete with all internal interconnections, wiring and accessories:				
	INCOMING				
	200 A,36KA,FPMCCB - 1 No.				
	Extended Rotatory Handle & Spreaders - 1 No.				
	6A SP 10KA MCB - 3 Nos.				
	Digital Amp Meter with Selector Switch - 1 No.				
	Digital Volt Meter with Selector Switch - 1 No.				
	R/Y/B Phase indicating lights - 3 Nos.				
	CT's 200/5A 15VA CL-1 - 3 Nos.				
	PHASE CORRECTION SYSTEM				
	200A FP AC1 Power Contactor (2NO + 2NC) - 2 Nos.				

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/M AE (P) E EE (E)

	Phase Seqence Relay - 1 No.				
	6A DP 10KA MCB - 1 No.				
	BUS BAR				
	400A TPN ALU. BUS BAR 50Hz				
	OUTGOINGS				
	50HP S/D STARTER X 2 (1W + 1S)				
	100A TP MCCB 25KA with Thermal Magnetic base with O/L, S/C Protection Release. - 2 Nos.				
	Spreaders - 2 Nos.				
	6A SP 10KA MCB - 2 Nos.				
	95A 3P Power Contactor with 2NO+2NC - 4 Nos.				
	50A 3P Power Contactor with 2NO+2NC - 2 Nos.				
	28-46.5A Thermal Overload Relay - 2 Nos.				
	Single Phase Preventer - 2 Nos.				
	Star Delta Timer - 2 Nos.				
	Multifunction Timer - 1 No.				
	ON/OFF Indicating Lamps - 4 Nos.				
	Start/ Stop Push Button - 4 Nos.				
	Auxilairy Relay - 4 Nos.				
	Auto Manual selector switch - 2 Nos.				
	Control Terminal - 40 Nos.				
	Power Terminal - 12 Nos.	2	361908.00	Job	723816.00
2	Supplying of one number PVC insulated and PVC sheathed / XLPE aluminium conductor power cable of 1.1 KV grade of following size on wall surface as required.				
a)	3½ X 35 sq. mm	40	700.00	Meter	28000.00
b)	3½ X 120 sq. mm	20	2021.00	Meter	40420.00
3	Supplying & replacement of following accessories in the existing panel complete with dismantling of existing defective accessories i/c credit of old dismantle material complete etc. as required.				
a)	95A 3P Power Contactor with 2NO+2NC	4	23582.00	Each	94328.00
b)	50A 3P Power Contactor with 2NO+2NC	2	7976.00	Each	15952.00
4	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 35 sq. mm (32mm)	4	437.00	Each	1748.00
b)	3½ X 120 sq. mm	2	710.00	Each	1420.00
5	Earthing with GI earth pipe 4.5 meter long 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	4	7658.00	Set	30632.00

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6	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	25	755.00	Meter	18875.00
7	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	25	287.00	Meter	7175.00
	Total Rs.				**962366.00**
8	Credit of old Assorted items				
a)	Panel with accessories (A/s)	1	30000.00	Job	30000.00
	Total of credit items			**(-)**	**30000.00**
	Total Rs.				**932366.00**

Executive Engineer (E)
DED-21, CPWD,
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