INDEX

Sl. No.	DETAILS	PAGE No.
1	INDEX	1
2	INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING	2-3
3	UNDERTAKING FORM	4-5
4	EMD RECEIPT	6
5	CPWD 6 & Performa of PG	7-15
6	CPWD 7 AND SCHEDULES	16-20
7	TERMS AND CONDITION	21-32
8	SCHEDULE OF WORK	33

Assistant Engineer (E) P
DED-302, CPWD,
R K Puram New Delhi-66

Executive Engineer (E)
DED-302, CPWD,
R K Puram New Delhi-66

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING

The Executive Engineer (E), DED-302 (Formerly known as ED-XVII, CPWD, R K Puram New Delhi. (Phone 011-26177096/ e-mail: deleeed17.cpwd@nic.in), invites on behalf of President of India, online percentage rate e-tender in single bid system from **approved and eligible CPWD Building & Road Category contractor** for the following work:-

NIT No.	**65/EE(E)/DED-302/2026-27**
Name of work & location	**Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**
Estimated cost put to tender	**Rs. 14,39,520/-**
Earnest Money	**Rs. 28,790/-**
Period of Completion	**12 Months**
Last date & time of submission of bids, EMD & other documents as specified in the NIT	**Upto 15:00 hrs. on 12-11-2026**
Time & date of opening Eligibility bid	**15:30 hrs. on 12-11-2026**

**To be filled up by EE(E)

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. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.etender.cpwd.gov.in or www.cpwd.gov.in.
4. But the bid can only be submitted after deposition of original EMD either in the office of **Executive Engineer (E), DED-302 CPWD, R K Puram New Delhi** inviting bid or Division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned document such as Insurance surety Bonds, Account Payee Demand Draft or Bankers Cheque or Fixed Deposit Receipt or / and Bank guarantee (A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs. 20 lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee) from any of the Commercial Banks towards EMD in favour of **Executive Engineer (E), ED-XVII, CPWD, New Delhi,** receipt for deposition of original EMD to Division office of any Executive Engineer, CPWD including NIT Issuing EE / AE, CPWD and other document as specified.
5. Those contractors not registered on the website mentioned above, are required to get registered before and. If needed they can be imparted training on online bidding process as per details available on the website.
6. The intending bidder must have valid class- III digital signature to submit the bid.
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. Contractor must ensure to quote percentage rate of works component as given in template. The column meant for quoting percentage rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.
10. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). However, if tenderer does not quote any percentage above or below on the total amount of the tender or any section / sub head in percentage tender, the tender shall be treated as invalid and not consider lowest tender.
11. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

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

1. Insurance surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee from any of the Commercial Banks against EMD **in favour of Executive Engineer (E), ED-XVII, CPWD, New Delhi.**
2. Copy of receipt for deposition of original EMD issued from Division office of any Executive Engineer, CPWD (In Enclosed Performa)
   (Note:- EMD is required to deposit in the office of Executive Engineer (E), DED-302 CPWD, R K Puram New Delhi who is inviting bid or Division office of any Executive Engineer, CPWD within the period of bid submission as per CPWD Works Manual-2022 and associated SOP Provision 5/1 (Para-6)/CPWD OM No. DG/SOP/37 dated 04-05-2022). If the EMD is deposited in Sub Division office then it shall not be considered and tender shall be rejected.)
3. Enlistment Order of the Contractor of the Building & Road category in CPWD in appropriate Class.
4. GST registration certificate, if already obtained by the bidder.
   lf the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents.
   "lf work is awarded to me, l/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 l/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".
5. An undertaking that **"I/We will arrange to get registered all the manpower/workers deployed against this work on Aadhaar Based Biometric Attendance portal within 7 days after start of work and all the deployed manpower/workers shall mark their attendance within 7 days after start of work through Aadhaar Based Biometric Attendance machine at that location of work or within 200-meter radius from the work place. Moreover, I/We shall install Aadhaar Based Biometric Attendance Machine setup with internet connection at Service Centres/Locations of work within 200-meter radius from the work place for marking attendance otherwise a recovery of Rs. 3,000/- (Rupees Three Thousand) per day beyond 7 days shall be made for not get registered all the manpower/workers at Aadhaar Based Biometric Attendance portal and not start to mark Attendance on Aadhaar Based biometric Attendance machine."** **(Undertaking from Enclosed pg. 4)**
   Note: For details regarding biometric machine/recovery the agency is advised to read, GENERAL TERMS & CONDITIONS (ANNEXURE – A condition no. 60-62).
6. Certificate of ESIC and EPFO registration, If the tenderer does not have ESIC and EPFO Registration then he have to upload an undertaking that, he has not employed/ deployed 20 or more labours in any day in the preceding one year for registration with EPFO and 10 or more labour in any day in the preceding 1 year for registration with ESIC and he will be get registered with ESIC and EPFO, if applicable before starting of the work otherwise appropriate action may be taken against him such as determination of contract, forfeiture of performance guarantee etc. GST registration certificate, if already obtained by the bidder.
7. Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class. **(Undertaking from Enclosed pg. 5)**
8. **ERP training Certificate. (Note: The enlisted contractor will not be allowed to participate in the tendering process without uploading the certificate of ERP training w.e.f. 01.07.2024.)**
9. Email & mobile no. of the firm/ agency on the letter head of firm/ agency (For making correspondence)

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

Assistant Engineer (E) P
DED-302, CPWD,
R K Puram New Delhi-66

Executive Engineer (E)
DED-302, CPWD,
R K Puram New Delhi-66

Undertaking Form

UNDERTAKING FOR BIOMETRIC ATTENDANCE MACHINE

Name of Work: **Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**

NIT No. 65 **/EE(E)/DED-302/2026-27**

1. **Estimated Cost. Rs. 14,39,520/-**
2. **Amount of Earnest Money Deposit Rs. 28,790/-**
3. **Last date of submission of bids: 12 -11-2026, upto 15:00 Hrs.**

I/We will arrange to get registered all the manpower/workers deployed against this work on Aadhaar Based Biometric Attendance portal within 7 days after start of work and all the deployed manpower/workers shall mark their attendance within 7 days after start of work through Aadhaar Based Biometric Attendance machine at that location of work or within 200-meter radius from the work place. Moreover, I/We shall install Aadhaar Based Biometric Attendance Machine setup with internet connection at Service Centers/Locations of work within 200-meter radius from the work place for marking attendance otherwise a recovery of Rs. 3,000/- (Rupees Three Thousand) per day beyond 7 days shall be made for not get registered all the manpower/workers at Aadhaar Based Biometric Attendance portal and not start to mark Attendance on Aadhaar Based Biometric Attendance machine."

Signature :-.....

Agency Name :-.....

Agency Address :- .....

.....

.....

Undertaking Form

UNDERTAKING FOR ASSOCIATING VALID ELECTRICAL CONTRACTOR LICENSE HOLDER

Name of Work: **Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**

NIT No. 65 **/EE(E)/DED-302/2026-27**

1. **Estimated Cost. Rs. 14,39,520/-**
2. **Amount of Earnest Money Deposit Rs. 28,790/-**
3. **Last date of submission of bids: 12-11-2026, upto 15:00 Hrs.**

I undertake that I will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class after acceptance of tender along with Performance Guarantee otherwise department shall forfeit the deposited EMD absolutely & shall reject my/our tender and debar me/us from re-tendering for this work"

Signature :-.....

Agency Name :-.....

Agency Address :- .....

.....

.....

		CPWD

Receipt of deposition of original EMD

(Receipt No. ……/Date……)

1. Name of Work: **Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**

2. NIT No. 65/EE(E)/DED-302/2026-27

3. Estimated Cost. Rs. 14,39,520/-

4. Amount of Earnest Money Deposit Rs. 28,790/-

5. Last date of submission of bids:- 12-11-2026, upto 15:00 Hrs.
(*To be filled in by NIT approving authority/ EE at the time of issue of NIT and uploaded along with NIT)

1. Name of contractor:- ----------

3. Form of EMD:- ----------

4. Amount of Earnest Money Deposit:- ----------

5. Date of submission of EMD:- ----------

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

(Note:- EMD is required to deposit in the office of Executive Engineer (E), DED-302 CPWD, R K Puram New Delhi who is inviting bid or Division office of any Executive Engineer, CPWD within the period of bid submission as per CPWD Works Manual-2022 and associated SOP Provision 5/1 (Para-6)/CPWD OM No. DG/SOP/37 dated 04-05-2022). If the EMD is deposited in Sub Division office then it shall not be considered and tender shall be rejected.)

#To be filled in by EMD receiving EE

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

1. ~~Item rate~~/ Percentage rate bids are invited on behalf of President of India from the **approved and eligible CPWD Building & Road Category contractor in single bid system** ~~and those of appropriate list of M.E,S, BSNL, Railways and …… State P.W.D. (B&R) or State Govt.'s Department …… (Strike out as the case may be) dealing with building and roads, if there is no state PWD (B&R)~~ for the work of **Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**

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

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

1.1 The work is estimated to cost Rs 14,39,520/-This estimate, however, is given merely as a rough guide.

1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicates the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

1.2 Intending bidder is eligible contractors provided they produce 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 issue of bid documents:

1.2.1 Conditions for Non-CPWD contractors only, if bids are also open to non-CPWD contractors.
For works estimated to cost upto tendering limit of class-I composite category Contractor (However, for Horticulture and Furniture etc. discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be)

Three similar works each of value not less than ` Rs..... or two similar work each of value not less than `Rs..... or one similar work of value not less than ` ..... (all figures rounded to nearest convenient figure) in last 7 years ending last previous day of last date of submission of bids.

Note :-

For works costing above tendering limit of class-II Composite Category contractors but upto tendering limit of Clause-I composite category Contractor (However, for Horticulture and Furniture discipline, it may be modified as per bidding limit of CPWD class-II and CPWD class-I contractors respectively of respective discipline as the case may be) 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 composite category Contractor (However for Horticulture and Furniture discipline, it may be modified as per bidding limit of CPWD class-I contractors of respective discipline as the case may be.)

Three similar works each of value not less than Rs ----------/- or two similar work each of value not less than Rs ……/-. or one similar work of value not less than Rs ----------/-. (all figures rounded to nearest convenient figure) in last 7 years ending last previous day of last date of submission of bids.

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 1.2.2.(This is not applicable for CPWD enlisted contractor of appropriate class in Composite Category)

To become eligible for submission of bids, 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 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 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be **12 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

4. The site for the work is available.

   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 the work.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website www.etender.cpwd.gov.in, www.cpwd.gov.in free of cost.

6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

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

9. Earnest Money in the form of Insurance surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of Executive Engineer (E), ED-XVII, 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 (E), DED-302 CPWD, R K Puram New Delhi inviting bids or Division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer shall issue a Receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs 20 lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Commercial Bank having validity for 6 months or more from the last date of Receipt of bids which is to be scanned and uploaded by the intending bidders.

9A The contractors registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee any time.

The bid submitted shall be opened at 15:30 Hrs on 12-11-2026.

10. The bid submitted shall become invalid if:
    - **(i)** The bidders is found ineligible**.**
    - **(ii)** The bidder does not upload scanned copies of all the documents stipulated in the bid document.
    - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the **lowest BIDDER** in the office of tender opening authority.
    - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/ below on the total amount of the tender or any section/ sub head in percentage rate tender, the tender shall be trated as invalid and will not be considered as lowest tenderer.

11. The contractor whose bid is accepted will be required to furnish performance guarantee @ 5% of the Estimated Cost put to tender (ECPT) or Contract Amount whichever is higher and additional PG as per DG/Manual/2024/20, Dated:-27/02/2026 as mentioned in Schedule 'E' and within the period specified in Schedule F. This guarantee shall be in the form of insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, then EMD submitted shall be forfeited automatically without any notice to the contractor. The Earnest Money deposited alongwith the bid shall be returned after receiving the aforesaid Performance Guarantee. The Contractor **whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC, and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and Programme Chart (Time and Progress) within the period specified in Schedule F.**

12. The description of work is as following:
Intending bidders are advised to inspect and examine the site and its surroundings and satisfy hem selves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

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

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

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

16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is

posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer to Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

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 Eligibility/Technical/Price bid** if any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bider shall not be allowed to participate in the rebidding process of the work.
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19. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 7 days from the stipulated date of start of the work, sign the contract consisting of:-

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

20. For Composite Bids

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

20.1.2 The bid document will include following three components:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

On Non-Judicial Stamp Paper Of Minimum Rs. 100
(CPWD, OM No.DG/CON/311 dated 20.10.2020)
(Guarantee Offered By Bank To Cpwd In Connection With The Execution Of Contracts)

Form of Bank Guarantee for Earnest Money Deposit/Performance Guarantee/Security Deposit/mobilization Advance

1. Whereas, the **Executive Engineer (E), ED-17, R K Puram New Delhi-66.** on behalf of the President of India (hereinafter called "The Government") has invited bids under ……(NIT Number)…….dated……for……..(Name of work : **"Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system."** The Govt. has further agreed to accept irrevocable Bank Guarantee for Rs. ……. (Rs…….. only) valid upto……..(date)*……..as Earnest Money Deposit from……..(name and address of the contractor)……..(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas, the **Executive Engineer (E), ED-17, R K Puram New Delhi-66.** on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number……..with……(name and address of the contractor)……..(hereinafter called "the contractor") for execution of work……..(Name of work: **Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.** The Government has further agreed to accept an irrevocable bank Guarantee for Rs…….(Rupees…….only) valid upto…….(date)…….as Performance Guarantee/Security Deposit/Mobilization Advance from the said contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, ……(indicate the name of the bank)……(herein after referred to as "the Bank"), hereby undertake to pay to the Govt. an amount not exceeding Rs……. (Rs……..only) on demand by the Govt. within 10 days of the demand.
3. We, ……(indicate the name of the bank)……. do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Govt. stating that the amount claimed is reqd. to meet the recoveries due or likely to be due from the 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 the bank)……., further undertake to pay the Govt. 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 and the Contractor shall have no claim against us for making such payment.
5. We, ……(indicate the name of the bank)……., further agree that the Govt. 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 exercisable by the Govt. against the said contractor and 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 Govt. or any indulgence by the Govt. to the said Contractor or by any such matter or thing what's over 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 Govt. as its option shall be 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 Govt. 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 Govt. in writing.
9. This Bank Guarantee shall be valid upto…….unless extended on demand by the Govt. notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs……...(Rupees……. Only) and unless a claim 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 bid 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.

(CPWD, OM No.DG/SOP/14 dated 20.10.2020)

(Proforma for encashment of BG to be issued 14 days before its expiry)

भारत सरकार
केन्द्रीय लोक निर्माण विभाग
दि.वै.मं–302 आर.के.पुरम, नई दिल्ली

To

The Manager

…(Name & Address of Bank)…

……

……..

Subject : Request for encashment of Bank Guarantee number……..dated…… for Rs……..valid up to…….. towards earnest money deposit/performance guarantee/security deposit/mobilization advance (As applicable)

Name of Contractor:

Dear Sir,

The above mentioned Bank Guarantee number ……..dated……. is valid up to…….. In terms of paragraph 2 of the said Bank Guarantee, the Govt. of India hereby demands a sum of Rs…….(Rupees……only) payable under this Bank Guarantee since this amount is required to meet the recoveries due from……(name of the contractor)…….. The amount shall be paid latest by…….(give date)…….by transfer to account number……..

The aforesaid Bank Guarantee is being sent to you through……(name and designation)…….along with this letter.

Enclosure : Bank Guarantee

Yours faithfully,
Executive Engineer (E)
DED-302, CPWD
R K Puram, New Delhi.

Copy to:…….(Name & address of the contractor)……

Proforma for extension of BG to be issued 30 days before its expiry)

भारत सरकार

केन्द्रीय लोक निर्माण विभाग

दि.वै.मं–302 आर.के.पुरम, नई दिल्ली

To

The (Name and address of Contractor)…

……

……..

Sub : Extension of Bank Guarantee number……..dated…… issued by ……..(Name of Bank)……..

(Name of work: **Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**

Agreement No. ……..

Dear Sir,

The Bank Guarantee number……..dated…… submitted by you for the above mentioned work as security deposit/performance guarantee/mobilization advance/earnest money deposit (as applicable) is valid upto……

The validity of the aforesaid bank guarantee needs to be extended because……..(give reasons)……..

You are, therefore, requested to get the validity of the said Bank Guarantee extended upto……..and submit the same to this office within 15 days from the issue of this letter, failing which it shall be encased without further notice.

Yours faithfully,

Executive Engineer (E)
DED-302, CPWD
R K Puram, New Delhi.

[Note for EE(E): If extended Bank Guarantee is not received by the prescribed date, action for encashment must be initiated].

CPWD-7

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

Percentage Rate Tender & Contract for Works

Tender for the work of : **Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**

(i) Tender to be uploaded online by **15:00 hrs. 12-11-2026**

(ii) The time and date of opening of the bid online in presence of tenderers who may be present at **15:30 hrs. 12-11-2026** in the office of **The Executive Engineer (E), DED-302 CPWD, R K Puram New Delhi.**

T E N D E R

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

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

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

A sum of **Rs. 28,790/-** is hereby forwarded in Insurance surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank guarantee (for balance amount as prescribed) issued by any of the Commercial Banks as earnest money.

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

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

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

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

Dated .....

Signature of the Contractor
Postal Address ----------
Telephone No. ----------
FAX ----------
E-MAIL ----------

Witness: ----------
Address: ----------
Occupation: ----------

स्वीकृति
ACCEPTANCE

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

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

(a). _____

(b). _____

(c). _____

For & on behalf of the President of India

Signature_____

Dated _____

Designation _____

PROFORMA OF SCHEDULES

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

SCHEDULE 'D'
Extra schedule for specific requirements/documents for the work, if any. **Nil**

SCHEDULE 'E'

Reference to General Conditions of contract (GCC-EPC Project-2022/ GCC-Maintenance work-2023/ GCC- Construction work-2023)	:	**General conditions of contract for Maintenance Work -2023 as modified and corrected up to previous day of last day of submission of tender).**
Name of Work	:	**Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**
Estimated cost of work	:	**Rs. 14,39,520/-**
(i) Earnest Money	:	**Rs. 28,790/-**
(ii) Performance Guarantee	:	5% of the Estimated Cost put to tender (ECPT) or Contract Amount whichever is higher and additional PG as per DG/Manual/2024/20, Dated:- 27/02/2026
(iii) Security Deposit	:	2.5% of tendered value of the work to be deducted from each R/A Bill.

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS

Officer inviting tender : **Executive Engineer (E), DED-302, CPWD, R K Puram New Delhi.**

Definitions

2(v) Engineer -in- Charge : **Executive Engineer (E), DED-302 CPWD, R K Puram New Delhi.**

2(viii) Accepting Authority : **Executive Engineer (E), DED-302 CPWD, R K Puram New Delhi**

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

2(xi) Standard Schedule of Rates : **Based on Current Minimum wages of labour of Central Government, Market Rates & DSR 22 & 25**

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

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

Clause 1

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

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

Clause 2

Authority for fixing compensation under **Clause- 2** : **Chief Engineer (NDZ III), CPWD, Sewa Bhawan, New Delhi**

Clause 2A

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

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start Mile : **10 days**

stone(s) as per table given below.

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

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

Time allowed for execution of work : **12 Month (Twelve Month)**

Authority to decide

(i) Authority to convey the decision of shifting of milestone and extension of time. : **Executive Engineer (E), DED-302 CPWD, R K Puram New Delhi**

(ii) Authority to decide rescheduling of milestone and extension of time. : **Chief Engineer (NDZ III), CPWD, Sewa Bhawan, New Delhi**

(iii) Shifting of date of start in case of delay in handing over of site : **Chief Engineer (NDZ III), CPWD, Sewa Bhawan, New Delhi**

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		
Part B	Portions with encumbrances		
Part C	Portions dependent on work of other agencies		

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

Clause 7

Clause 7 : Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment. : **Rs. 5.00 Lakhs / If Budget is available**

Clause 7A

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

Related to labour license, registration of contractor with EPFO, ESIC and BOWC welfare board i/c Provident Fund Applicable No Running Account 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 the contractor to the Engineer-in-Charge. (Added vide DG/SE/CM/CON/285 dt. 04- 06-2015) Whether Clause 7A shall be applicable

Clause 10A

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

1. Earth Tester 2 . Meggar 3. Clamp Meter

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

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

Clause 10B (ii)

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

Clause 10C

Component of labour expressed as percent of value of work : **NIL**

Clause 10 CC

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

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

Component of of Labour

Expressed as percentage of total value of work. **:** Not Applicable

Clause 11

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

Clause 12

Type of work	**Maintenance work**
Authority to decide deviation up to 1.50 times Tendered amount.	Chief Engineer (NDZ III), CPWD, New Delhi or successor thereof. The completion cost shall, in no case, exceed 1.5 times of the contract amount. (The completion cost includes Grass amount of the work done, amount of extra items, deviation and escalation amount administrable as per terms and conditions of agreement etc.
Authority to decide deviation upto 1.25 times of the tendered amount.	Engineering – in – charge
Authority to decide deviation beyond 1.5 and upto 2.0 times of the tendered amount.	Not applicable
Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work / foundation work.	All deviated quantities shall be paid on agreement rates.
Deviation limit for individual items	No limit

Clause 16

Competent Authority for deciding reduced rates **:** **Chief Engineer (NDZ III), CPWD, Sewa Bhawan, New Delhi**

Clause 18

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

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

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

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

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

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

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

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

Clause 25

Constitution of Dispute Redressal Committee (DRC)	Conciliator	ADG (RD), CPWD, New Delhi
	Arbitrator Appointing authority	Chief Engineer, NDZ-III, CPWD, New Delhi
	Place of Arbitration	New Delhi

Clause 32

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

S. No	Minimum Qualification of Technical Representative	Minimum experience (years)	Discipline	Designation (Principal Technical /Technical Representative)	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32 (i)	
						Figures	Words
1	**Graduate Engineer or Diploma Engineer**	**2 or 5 respectively**	**Elect.**	**Project Manager cum planning /quality / Site/billing Engineer**	**1**	**Rs. 15,000/- Per Month per person**	**Rupees Fifteen Thousands 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 Engineer with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holder Engineers should not exceed 50% of requirement of degree engineers.

Clause 38

(i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2018 printed by C.P.W.D. N.A.

(ii) Variations permissible on theoretical quantities: N.A.

Cement For works with estimated cost put to bid not more than Rs. 25 lakh.

For works with estimated cost put to bid more than Rs.25 lakh N.A.

b) Bitumen for all works. N.A.

c) Steel Reinforcement and structural steel sections for each diameter, section and category. N.A.

d) All other materials. N.A.

GENERAL TERMS & CONDITIONS

1. The work shall be carried out as per CPWD general specifications for electrical works Part-I & II, Part III (Lift & escalator), Part-IV (Sub-Station), Part-V (Wet Riser / Fire Fighting system), Part VI (Fire Detection and Alarm system), Part VII (D.G. sets), Part-VIII (Gas Based Fire Extinguishing System) and HVAC system upto date as amended wherever applicable and entire satisfaction of Engineer-in-charge or his representative.
2. The contractor / Firm is advised to visit the site of work before quoting the rates, in order to ascertain the quantum and location of work.
3. The work shall be carried out as per direction of the Engineer In-charge or his authorized representative
4. Conformity with statutory acts, rules, standards and codes all electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 as amended upto date. They shall also conform to CPWD General specification for Electrical works, part-I (Internal, 2013 and part- II (External), 1994 and part IV (Substation) 2013, part V (Wet Riser and Sprinkler system for firefighting installation)- 2006 Part VI (Fire Alarm System) Part III (lift), DG Set Part VII as amended upto date.
5. Safety codes and labour Regulations:- (a) In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for safety provision as per the statutory provisions, B.I.S recommendations, factory act, workman's compensation act, CPWD code and instruction issued from time to time. Failure to provide such safety requirement would make the tenderer liable for penalty for Rs. 200/- for each violation. In addition the Engineer-in-charge shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor. (b) The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work or wherever necessary so as to arising accidents. He shall also indemnity CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accidents occurring due to any cause. The department shall not be responsible for any accidents occurred or damaged incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.
6. The contractor shall take all precautions for safety of the workmen. If any accident/ miss-happening occur the department shall not be responsible for the same. If any compensation is to be paid to the victim, the firm shall pay the same and no claim in this account shall be entertained by the department.
7. If the work is of deposit work and carried out on obtaining sanction along with fund from the client department. The operation and maintenance of E&M services in this building is continuous nature. So tender has been called for 12 months accordingly. Meanwhile client department in case stop sanctioning or not providing funds or withdraw the works from CPWD, then agreement will be resigned on one month notice by the department to contractor for which no any nature of claim will be entertained.
8. If shall be entirely the responsibility of the contractor to ensure that no unlawful act is done by his persons while on duty. In case any theft/ loss of departmental property takes place due to the negligence or carelessness of his personnel, the contractor will be held responsible and shall made good the same. The afore said terms and conditions shall be read in conjunction with the general rules and directions from the guidance of Contract form PWD -8.
9. Department shall in no way be involved in any dispute of whatever kind, between the contractor and the staff engaged by him. Payment against the final bill however would be subject to clearance from labour authorities.
10. No T&P shall be issued to the contractor. The contactor shall make his own arrangement of tools for maintenance of Sub Station/ Electrical Installations equipment's & following T&P shall always be available at the site of work by the contractor:-
    a. Tong tester, Test lamp
    b. Gloves – 4 Sets.
    c. First Aid Box
    d. Crimping Tool Kit
    e. Meggar (5 KV HT and 500 volt LT)
    f. Spanner Set.
    g. Screw Driver set
    h. Allen Keys set
    i. Earth Tester
    j. Blower
    k. Hammer, Drill Machine & Spade
    l. Every wireman/ operator should have pliers, screw driver of different size, tester & test lamp for day to day maintenance work.

    Before start of contract these T&P materials must be kept in a lockable box, if same is not available at site recovery for the same @ Rs. 200/- per day shall be deduct from the contractor bill .

11. After deployment of the staff interview of all staff shall be taken by the committee of one Executive engineer and one Assistant engineer.
12. The minor material such as soap, duster, broom, old dhoti, cotton waste, PVC tape etc. shall be arranged by the contractor. Nothing shall be paid on this account.

13. Before the start of contract, the contactor is bound to submit the following details along with supporting papers of the workers proposed Sub Head wise to be engaged by him. After receipt of confirmation of their suitability from Engineer-In-charge or his authorized representative, they shall be deployed on duty.
    a. Name & Postal Address with ID Proof
    b. Photograph with specimen signature
    c. Qualification and experience
    d. Bank accounts details
    e. ESIC/ EPF Details if applicable

    Before start of work the agency has to got approved the detail of workers from Engineer-In-charge or his authorized representative & has to take over the site from J.E. in charge of site.
14. For the passes of Labour, Police Verification, photographs, Copy of Aadhar Card has to be submitted well in time and the passes will be issued for 3 months only and the contractor has to again apply for passes. Necessary documents has to be submitted by the contractor.
15. In case of any damage to any equipment due to negligence of the contractor's staff the same will have to be made good by the contractor at his cost. Failure to which suitable recovery will be made from the contractor bill as decided by the Engineer-In-charge.
16. The contractor shall prepare a Sub Head wise "Fortnightly / Monthly "duty chart with name and duty hours stated therein. The same shall be submitted to the JE (E) / AE (E) concern at least seven days in advance.
17. Shift timings can be changed as per the requirement at site and decision of the Engineer-in-charge.
18. The Engineers - in – charge reserves the right to ask the contractor to remove any default/untrained staff without assigning any reason.
19. The contractor shall maintain attendance register for the operational staff at site which shall be checked by JE(E) or AE(E).
20. The contactor shall maintain Sub Head wise "attendance register " in support of the attendance of the staff and the same shall be got periodically checked from JE(E) /AE(E) concern. Failure to which suitable recovery will be made from the contractor bill as decided by the Engineer-In-Charge.
21. All the cleaning material i.e. soap, duster etc. shall be arranged by the contractor at his own cost for cleaning of Electrical Installation & fans, switch gear, DB, Main control panel, Water supply pump, Fire Alarm System/ Wet Riser System/ D.G Set/ Sub Station equipment / Lifts etc. as per scope of work of this agreement / work order. If cleaning of installation is not found satisfactory at any time, a recovery of Rs.200/- per occasion noticed per Sub Head shall be made from the bill of contractor.
22. The contractor has to provide Vehicle / Cycle or other suitable means of travelling to worker for quick movement to various sites.
23. The contractor shall furnish name & contact number of the persons, who should be contacted during emergency.
24. In case of any damage to any equipment on account of negligence/fault of the contractor's staff the same will have to be made good at contractors risk and cost. Failure to comply with this clause shall attract recovery from contractor bill.
25. The contactor shall provide two sets of summer uniform (shirt, paint & black shoes) and two sets of winter uniform (shirt, paint and woolen jersey) along the badge having name of worker, designation of worker and name of agency within 15 days of start of work. Failing which recovery @ Rs. 50/- per/day/per worker for summer uniform and @ Rs. 100/- P/day/per worker for winter uniform shall be made from the contactor bill.
26. Worker deputed on duty should be in uniform. If any worker found without uniform a recovery @ Rs. 25/- per day per worker shall be made from the contactor's bill.
27. The contractor shall have to arrange for issue of identity cards as per direction of the Engineer-in-charge for all the staff deployed within one week of the start of the work at his own cost and also submit two extra photographs with full address of each worker for record. If he fails to do, the department shall recover Rs. 50/- per person/per day for this default from the monthly bill.
28. No staff shall leave his duty unless relived by his relievers, engineer in charge or the site reserves right to retain the staff on duty in the next shift if the relievers fail to turn up.
29. Contractor shall provide one No mobile phone for each services and same is displayed and inform to client department. Contactor shall not change the mobile no during the agreement stipulated period. If mobile is found switch off for more than 4 hours, recovery shall be made @ 100/- per day for mobile per service.
30. Payment shall be made every three months after carrying out satisfactory of work. However, it may be delayed due to any reasons like non availability of funds, L.O.C. and other unforeseen reasons, the contractor/ firms shall not claim any things extra in such in such contingencies but shall make regular and timely payment to his workers/ staff deployed for the work.
31. The rates quoted shall be inclusive of wages of Electrician/ E&M Operator / Wireman/ Khallasi etc. i/c relievers, cleaning material, uniform and all taxes and duties etc. as applicable. However ESI/ EPF will be reimbursed to the contractor, on production of proof of deposit of the same with respect to Govt. department.
32. All the complaint registers, log books, workers diary, test result registers or any other record for each sub head shall be supplied by the contractor, maintained by the staff of the contractor and handed over to the department on the completion/ termination of the contract and non-production of above mentioned document recovery shall be made @ Rs. 10000/- Per year sub head.
33. In case the department staff is posted or due to some other reasons, the department reserve the right to terminate the contract in full or part thereof.
34. The contactor is bound to distribute the salary / wages to his worker by 7th of each successive month, positively, by ECS or RTGS or online mode as feasible noncompliance of this recovery shall be made @ Rs. 100/- per day per worker. However department will make payment to the agency quarterly subject to availability of fund and fulfillment of terms and condition of agreement. Copies of the proof of above mode of payment to the workers will be submitted to the concerned AE(E)/ JE(E) with the bill, failing which no payment will be made to the contractor.

35. The contractor shall deduct worker subscription toward Provident Fund, ESI, as per rules, he shall deposit the same along with his contribution into the respective accounts of the worker and submit the detail to this office for verification.
36. The firm shall abide minimum wages Act. As notified by the Govt. of NCT Delhi or Central Govt. whichever is higher and the payment to staff shall be made through online mode /ECS. The payment to the contractor will be released only after giving proof to the department for the same.
37. The contractor whose bid is accepted will also be required to furnish either copy of applicable license/ registration or proof of applying for obtaining labour license, registration with EPFO, ESIC & BOCW welfare board within period specified in schedule 'F' or before starting of work.
38. No running account bill shall be paid for the work till the applicable labour license, registration with EPFO, ESIC & BOCW welfare board, whatever applicable are submitted by the contractor to the Engineer-In-charge & with each running A/c bill, documents of payment / deposit of ESIC & EPF to all works engaged for this work will be submitted to the department/ concerned AE/JE(E).
39. The registration with EPFO & labour license is mandatory if 20 or more labour is employed in any day in the preceding one year, registration with ESIC & BOCW welfare board is mandatory if 10 or more labour is employed in any day in the preceding one year.
40. ESIC & EPF shall be reimbursed on actual basis on production of documentary evidence.
41. In case of any dis-obedience by the staff of the contractor with the occupants/ authorities/ engineer in charge and his authorized representatives, the contractor shall be responsible fully for such consequences and such staff shall be removed from the site immediately.
42. The contractor has to take over the site from JE-In-charge. After completion of work contractor has to hand over the site to JE in charge of site.
43. Any other minor addition / alternation in the existing installation shall be covered in the scope of the work and operation & maintenance of the same shall be included in scope of this agreement. Nothing extra will be paid on this account.
44. The contractor shall be responsible for the safety of the Electrical installations so long as the entire work i/c testing, fixing of all fittings and fixtures are completed and handed over back.
45. As the installations /equipment's are in running condition the installation shall be handed over on" as is where is basis" and nothing extra shall be paid toward pre- maintenance However, if any deficiencies are brought to notice of department while taking over of installations by the contractor ,for rectification of which some parts are required. The same shall be arranged by the department and provided to the contractor free of cost but shall be replaced by he contractor for which nothing extra shall be paid.
46. After the expiry of the contract, the firm shall have to hand over complete installation to the department in proper working order. All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in-charge failing which the work shall be got done at the risk and cost of the firm.
47. If any additional / alteration in the installed inventory is found / made after award of work then contractor shall be bound to maintain in the same within the quoted rates under same scope of work and term and conditions.
48. Contractor shall be bound to execute the deviations in the schedule quantities to the extent of 30% at the approved rates. Deviations in excess to this would be subject to written consent of both the parties.
49. Contractor shall be bound to execute such additional items which can be termed as logical, essential and necessary (even though not listed in schedule of work) for the effective execution of the work in totality, rates for such items of work shall be rationally analyzed/derived and would be binding on the contractor.
50. If the behavior of the worker is not found satisfactory, the contractor has to change staff within 3 days, failing which, the Engineer-in-Charge has the power to cancel the contract, and the contractor shall have no claim of compensation
51. The contractor shall discuss with EE(E) or his authorized representative/visit the site before placing the supply order/delivery of materials at site as per actual requirement as the actual Quantity of materials required may deviate (+/-) from the quantity taken in the schedule of work/inventory of the agreement.
52. The quoted rates should be inclusive of all taxes etc. i.e. GST and nothing extra will be paid.
53. The contractor shall take all precaution for safety of the workmen. If any accident/mishap occurs, the department shall not be responsible for the same. Consequently any compensation payable shall be at the contractor cost.
54. Schedule for maintenance for internal EI, Sub-Station, HVAC, DG Set, Fire protection systems & Lifts shall be carried out as per latest CPWD maintenance manual (Book of schedule of maintenance).
55. The contractor has to maintain an inventory of electrical items or spares for day to day complaints at least 10% of required spares as shown in the schedule.
56. The contractor shall submit duty roster/duty chart as per satisfaction of Engineer-in-charge in duplicate with in 1 week from the date of start and their after two days before the close of every month.
57. The shift timing can be changed as per the requirement at site and as per direction of Engineer-in-charge.
58. If there is any conflict/dispute or difference is found in the terms and condition / provisions between the terms and condition of General Part 'A' and terms and condition in Electrical part 'C' then stringent provision shall be taken & considered as final.
59. Watch and ward of all the installations shall be the responsibility of the contractor.
60. **The agency/contractor will arrange to get registered all the manpower/workers deployed against this work on Aadhaar Based Biometric Attendance portal within 7 days after start of work and all the deployed manpower/workers shall mark their attendance within 7 days after start of work through Aadhaar Based Biometric Attendance machine at that location of work or within 200-meter radius from the work place. Moreover, I/We shall install Aadhaar Based Biometric Attendance Machine setup with internet connection at Service Centers/Locations of work within 200-meter radius from the work place for marking attendance otherwise a recovery of Rs. 3, 000/- (Rupees Three Thousand) per day beyond 7 days shall be made for not get registered all the manpower/workers at Aadhaar Based Biometric**

Attendance portal and not start to mark Attendance on Aadhaar Based biometric Attendance machine. However, the biometric attendance machine installed by CPWD/Other clients/Other agencies within 200-meter radius from the work place may also be used to mark attendance on Aadhaar Based Biometric Attendance machine. Although the agency cannot make any excuse that his deployed manpower/workers are unable to mark their attendance on Aadhaar Based Biometric Attendance machine due to non-functioning of machine/no internet connection in the machine installed by CPWD/Other clients/Other agencies as the agency is own responsible to mark the attendance through Aadhaar Based Biometric machine with internet connection provided by him.

61. Aadhar based Biometric Attendance system alongwith internet connection for all deployed manpower/workers shall be provided, installed and maintained in good working condition by the contractor at his own cost at all the times (spare Aadhaar Based Biometric Attendance machine shall also be provided within the same day if any machine not working), for which nothing extra shall be paid. In & out, both timings attendance should be marked by every engaged staff in Aadhaar Based Biometric Attendance machine failing which it will be treated as absent. However, exemption may be given by concerned JE/AE/EE for not marking the attendance in Aadhaar Based Biometric Attendance system for any fault due to server failure or Covid situation which is beyond the control of agency/contractor for which necessary certificate from JE/AE shall be required. **No payment shall be made without record of Aadhar based Biometric Attendance system.**
62. Any urgency In Round the clock shift duty, staff of current shift will relive only when staff of next shift join duty. All engaged manpower should join duty and mark their attendance on Aadhaar Based Biometric Attendance machine on time failing which a recovery charge @ Rs. 50 for delay of every 30 minute per worker per day/shift or part thereof, after initial delay of 10 min will be imposed for every late attendance. Maximum permissible delay is 60 minutes (or as decided by Engineer-in-Charge) after which it will be treated absent and recovery rate shall be as per terms & condition of the agreement. Similarly for early departure from scheduled off time, recovery charge will be imposed @ Rs 50 for every 30 minute or part thereof per worker per day/shift.

Inventory as per physically available at site with JE & shall be handed over by the JE (E).

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R K Puram New Delhi-66

Executive Engineer (E)
DED-302, CPWD,
R K Puram New Delhi-66

Sub-Head (A) – Internal & External Electrical installation & DG set

A. Detail of Inventory

All the internal Electrical inventory such as light fittings, Switch boards, DB's, Fan, Regulators, LT Panels, Sub Main wiring, Circuit wiring, Point wiring, Compound light, street lights, cables etc. at CRPF , East Block VIII at East Block VII, R K Puram, New Delhi.

B. Detail of Manpower Required.

The agency shall have to provide following staff for smooth execution of the work:

i) Wireman - 02 Nos. (06:00 Am to 02:00 PM & 02:00 PM to 10:00 PM, on all days of week i/c Saturday, Sunday & Holidays)

ii) Khallasi – 01 (in General Shift on all days of week i/c Saturday, Sunday & Holidays)

Qualification of Deputed Manpower and recovery in case of absent.

i) Wireman: - Academic Qualification: - Wireman should have passed ITI in relevant trade or shall have valid electrical license from competent authority with minimum 3 year experience in similar work.

ii) Khallasi:-Academic Qualification:- Physically strong/Mentally fit, minimum 10^{th} Pass.

In case of any staff found absence from duty, the recovery will be made at the following rates from the contractor bill.

1. Wireman: - 2016 per day / shift.
2. Khallasi – 1654/- per day/ shift.

Terms and Conditions and Scope of Work for Internal & External Electrical Installation

1. The scope of work includes maintenance of all Internal & External electrical installation comprising of EI and fans installed in FRRO, East Block VIII R K Puram, New Delhi.
2. Preventive maintenance:
   A) The voltage supply, total load current and PF should be noted in log book every day preferably during peak loading time of the day.
   B) Inspection of Distribution Board/Switch Board: **By every six (06) Months** or as and when directed by Engineer-in-charge. During inspection, it must be ensured that:
3. There is no sign of heating up, burning smell, decolouration or sparking at any of the boards and Rising Mains.
4. The shaft/spaces for electrical services are not misused, for storage or for dumping rubbish.
5. The spaces in front of DB's are free.
6. Insulation test to be carried out annually and recording the test results. The test should be carried out during monsoon season as per clause 16.2 of CPWD General Specification for electrical works-Part 1 (internal)-2013 or latest amended.
7. Earth continuity test and Earth electrode resistance test to be carried out annually. The test should be carried out during summer season as per clause 16.4 & 16.5 of CPWD General Specification for electrical works-Part 1 (internal)-2013 or latest amended and recording the test results.
8. Each preventive maintenance activity as described above shall have to be carried out strictly as per schedule and should be noted in the maintenance register. The test results should be recorded with appropriate identification references & put up to JE (E)/AE (E)/AEE (E) for their appraisal and necessary direction thereof.
9. Day to day Maintenance:
   i) Attending& rectifying day-to-day complaints/faults.
   ii) All the complaints and related activities are to be recorded in **maintenance register** along with **worker's dairy**.
   (iii)All electrical points, fans, luminaries, circuit wiring, sub main wiring, MV panels, switch gears are ensured to be functional.
   (iv) In the event of replacement of any electrical items, the firm/agency shall utilize such materials of same make as existing at site or the makes indicated in acceptable make list.
   (v) Attend day to day complaints and street light, boundary light, complaints
10. Compliance to rules, regulations and specifications.
11. The contractor shall take over the site as per inventory before starting the work and shall hand over the same on conclusion of the agreement.
12. The work shall be carried out as per CPWD specification wherever applicable, or as directed by Engineer-in-charge or his authorized representative.

13. Strict compliance of the clauses 19, 19B and CPWD contractor's labour regulations incorporated in "CPWD General Conditions of Contract" shall be ensured.
14. The contractor shall furnish Name & Contact Number of the person, who should be contacted during emergency
15. The installation will be handed over to the contractor as and where is basis, some of the installation is not functional, and the contractors are advised to visit the site before quoting the rates. Contractor will have to receive inventory as it is and it is the responsibility of agency to make it functional, nothing extra shall be paid on account.
16. The scope of work includes attending day-to-day complaints, repairs/maintenance of all electrical installation & fittings provided , rectifying defect and making functional.
17. While cleaning fittings and fans, the fixing/suspending arrangements should also be checked and attended to as necessary. Care should be taken that the alignment is not disturbed.
18. The contractor shall responsible or cleaning all Electrical fitting, panel, DB's Switch Room etc. under scope of work once in a month otherwise a recovery of Rs. 5000/- per month shall be made from the contractor's bill.
19. The service required maintenance work has to be arranged by the contractor well in advance and quantity required shall be worked out based on the total no of points/ fittings/fixtures etc. No excuse shall be entertained due to shortage in spares. The consumable like grease, cotton waste / cleaning cloth, indication lamps, insulation tapes etc. shall be provided by the contractor without any extra cost.
20. The scope of work includes day to day operations and maintenance of electrical installations, external electrical works like Street lights, compound lights, bollard lights & its LT panels etc.
21. Whenever required proper UG Cable joint shall be provided (In any case temporary / Loop joint is not allowed).
22. The sundry materials like insulation tape, greasing / oiling of ceiling / exhaust fan, screws, nut & bolts, detergent for cleaning, dhoti, cotton waste, split pin, quarter pin etc. are to be arranged by the contractor for which nothing extra will be paid.
23. The contractor has to maintain a complaint register for login of complaints and action taken report on daily basic.

Terms and Conditions and Scope of Work for Operation of DG Set

A. Detail of Inventory

a. 380 KVA DG set with AMF panel (Greaves make) - 1 No.

Note:-The Inventory given above is for just to have an idea of quantum of work. However this may differ from time to time due to up gradation / some addition & alteration as per client requirement. Hence, the agency shall be liable to do all the work as per scope of this tender as per actual quantity installed in the above Building/quarters without any extra cost.

Terms and Conditions and Scope of Work

1. The firm/agency shall ensure that the technician/mechanic of the OEM)/Authorized Agents shall respond swiftly upon lodging of complaints of malfunctioning of DG Set by operators.
2. The contractor will have to maintain all the installation/ equipment's as stated proper working condition. The services are to be provided on all working days i/c Sunday and all holidays.
3. The contractor will have to depute additional skilled labour to attend a fault beyond the competency of the staff deployed for which nothing extra shall be paid.
4. The contractor will have to maintain attendance and all the checks and faults with date and time of all equipment's at site and the firm has to arrange the log book and attendance register within their quoted rates, which will be checked by the Junior Engineer (E)/ Asst. Engineer (E)/Executive Engineer (E).
5. The Minor material such as soap, duster, broom, old dhoti, cotton waste, fuse wire, PVC tape, Grease, M. oil, test lamp, torch etc. shall be arranged by the contractor within their quoted rates.
6. All the installation/ equipment's shall be maintained by the firm in neat and clean condition within their quoted rates.
7. Any damage done to the existing equipment/ system/ panels during maintenance shall be made good by the contractor free of cost failing which the same shall be made good by the department at risk and cost of the contractor.
8. In case of minor repairs/ replace required such as nut bolt, fuse wire, connecting wire, distilled water, petroleum jelly, thimbles etc. the contractor shall arrange the same within quoted rate. Major repairing not covered in the scope of work.
9. Contractor shall make arrangement of one No. mobile phone in the substation for the central control room for smooth functioning of the maintenance system the mobile phone shall be handed over to the manpower of another shift or the same number shall be available for round the clock and all the days. The mobile number shall be communicated to the department by the agency.
10. No contractor or his staff shall be allowed to use or shall be stay in DG set room and as such other place at site after duty hours.
11. In case of electrical supply failure the contractor or his worker available on duty shall record in brief action brief

action taken in this regard with supply agency.

12. In case of any problem arises contractor has to arrange the Engineer/ Microprocessor Engineer/ any other assistance required as and when and as per need of site has to provide free of cost for which nothing extra will be paid.
13. In inventory in the schedule is for just to have an idea of quantum of work. However this may differ from time to time contractor has to make sure that all the equipment's related to these services are to be maintained in perfect condition.

- **Daily Routine Checks:-**
  a. Cleaning of DG Set Room/installed area: Wipe out dirt from external surface of installation, Engine, Generator and control panels.
  b. Check the levels of diesel in daily service tank, lubricant oil in Engine, crank case and (in case of water cooled engines), and water level in radiator. Fill / top up as necessary.
  (Note:- (i) Oil should not be above the High level mark on the Dipstick, the check being done before start of the engine or after about 20 Minutes after stopping of running engine.
  (ii) Radiator Cap must be properly put in position : Else, there can be aeration i.e. mixing Air with
  c. Inspect the installation for leakage of diesel oil, engine (lub.) oil, and coolant in the respective systems.
  d. Check that the selector in control panel is in AUTO mode.
  e. Record the reading of voltage of supply and engine battery voltage.
  f. Run each DG Sets for a period of 5-10 minutes daily for testing and entries of these tests shall be recorded in log books of each DG Sets.

- **Weekly Checks:**
  i) Check the automatic starting of engine by switching of the main supply to the AMF panel. Run the set on load for 15 minutes. Observe for any abnormality of noise, vibration, bearing surface heating (whether warm), engine pick up, voltage level and frequency.
  ii) Check the level of electrolyte in the battery of the engine. Top up with distilled water if necessary. Charge the battery at the earliest, if it is required.
  iii) Check whether all panels' lamps, fuses & instruments are healthy in the control panel.

- **Monthly Checks:**
  i) Checks engine radiator for air restriction, if any. Check the conditions of drive belts, hose and radiator cap.
  ii) Clean the battery terminals and apply grease to prevent corrosion. Check specific gravity of the electrolyte.
  iii) Check the exhaust system for leakage, corrosion and vibration. Observed the condition of exhaust smoke; whether too dark or too light.
  iv) Check that there are no restrictions to air flow in air cleaner.
  v) Check that oil heater is functional.
  i) Check coupling with alternator for any sign of fatigue.

- **Six Monthly Checks: (for DG Set)**
  i) Inspect the electrical control panel and starters to see that all power/control contacts are clean all terminations are sound and all fuses are intact. Blow out dirt from machine wending's and panels by a blower, check brushes (where provided) of alternator
  ii) Inspect all cable end terminations, including control cables. Tighten as required.
  iii) Check all safety control and alarms in the set supply system.
  iv) Check and change filters of diesel oil, engine (lub) oil, coolant and air cleaner element of the Engine after checking total hours of operation as per manufacture's recommendation. Drain and change the cooling water.
  v) Check the belt tension. Tighten if required.
  vi) Change the crankcase breather element for naturally / aspirated engines, clean the screen turbocharged engine.

- **Annual Checks:**
  i. Inspect the fuel tank for any sedimentation. Clean up.
  ii. Replace the engine oil as per hours of operation and recommendation of the manufacturer, oil will be provided by the contractor.
  iii. Check shaft alignment and condition of anti-vibration mountings, in case any abnormal noise or vibration is observed.
  iv. Blow through radiator core in a direction opposite to the normal flow of air (Reserve Flushing)
  v. Conduct Megger test on all cabling, mains and control wiring motors, and earth test, (Earth test is to be done in summer and megger during monsoon).

vi. Paint all external MS surface, machine base plates, pipes, support etc.

vii. Calibration of fuel pump and injector should be one as per manufacturer's recommendation. His is also necessary when engine is overhauled.

EXCLUSION:-The following works are excluded from the scope of this Sub-Head of work of this contract.

1. Overhauling and major repair to DG sets.
2. The diesel oil for running the DG Sets shall be arranged and supplied by the department in 200 Ltrs. Barrels at site store free of cost, which will be filled in service tank by the agency free of charge.
3. The Consumption statement of HSD oil shall be prepared monthly by the contractor in the prescribed Performa as per detail below & shall be submitted to Engineer-in-charge that would be a part of contractor bill. Period of statement …… to ……..

S.N.	Last balance of HSD Oil in Fuel Tank	Poured HSD Oil in Fuel Tank drg this period	Total	Balance of HSD Oil in Fuel Tank at the end of this statement	Total HSD Oil consumed drg this period	Total run of DG Set for this period	Consumption	Remarks
	A	B	A+B=C	D	C-D=E	F	E÷F	

Checking of DG Set (Weekly)

S N	D a t e	Auto Start of Engine	Abnormalities in			Vo lta ge	Freque ncy	Electroly te Level	Checking of Control Panel			Remarks & Action taken, if any	Initials	
			Nois e	Vibrati on	Bearin g Heatin g				Lamp s	Fuse s	Instrum ents		JE (E)	AE (E)

Checks of Engine & Alternator (Monthly)

S N	Date	i) Cleaning ii) Drive Belts iii) Hose iv) Radiator Cap	Battery		Exhaust	Air Cleaner	Oil Heater	Engine Alternator Coupling	Remarks & Action taken, if any	Initials	
			Battery Terminals	Sp Gr.	i) Leakage ii) Corrosion & Vibration iii) Colour of smoke					JE (E)	AE (E)

Six Monthly Checks

S N	D a t e	Electrical Control Panel			Safety Contr ooals and alarms	Filters				Belt Tens ion	Crankc ase Breathe r & Screen	Remarks & Action take if any	Initials	
		Contacts	Cabl e Ter min atio n	Blow out		Di ese l Oil	Engine Oil	Coolant	Air Cieaner Elem ent				JE (E)	AE (E)

ANNUAL CHECKS

S N	Da te	Fu el Ta nk	Replaceme nt of Engine oil (mention hour of operation	1) Shaft 2) Alternator Bearing 3) Brush & Commenta tor	Anti-Vibra tion Moun tings	Radi ator reve rse Flus hing	Insulation & Earth Test		Painting				Remar ks & Action take if any	Initials	
							Equipment	Val ve	Exter nal surfac e	Machi ne Base Plate	Pi pe s	Supp orts		JE (E)	AE (E)
							1. Generator 2. Cubical Panel 3. Cables 4. Earth Pit								

Note:- Failure to do above daily / monthly / quarterly / six monthly / Yearly checks shall attract a recovery as per decision of Engineer-In-charge & decision of Engineer-in-charge shall be final & binding t

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Sub-Head (C) – Fire Alarm system

A. Detail of Inventory

The scope of work includes maintenance of fire alarm system & accessories installed in the O/o O/o CRPF East Block VIII R.K. Puram, New Delhi

1. Fire alarm panel (Conventional) Agni Make -2 no. at O/o CRPF i/c All Fire Alarm Accessories

B. Details of Manpower

A) Engineer (AGNI/ESSER Make) : 01 No. (Two visit in a month or as and when required)

In case of any staff found absent from duty, the recovery will be made at the following rates from the contractor bill.

Engineer (From AGNI/ESSER) :-Rs. 3000/- per Visit

The following activities are intended to be covered under this contract:

1.0 Operation and maintenance of installations of B.O.Q. as directed by the Engineer-in-charge or his authorized representatives.

i. Performing the daily/weekly/monthly/quarterly/six monthly checks and taking remedial action for proper maintenance.
ii. Cleaning of all equipment's.
iii. Watch and ward of all the equipment's (Internal and external both).
iv. Attending to day to day complaints and repairing of the installation i/c providing necessary spares for the fire alarm panels and exit sign boards within the quoted rates.

v. **Conducting of fire drills**.
For making the users familiar with the system, Operation of the system shall be demonstrated so that all users are confident of the system and aware of their duties and responsibilities during fire.

vi. **Healthiness of system.**
The healthiness of the system in Automatic Mode shall be checked through weekly testing. During the weekly testing a block shall be taken up and all complete that position of, fire alarm system and public address system of the building shall be operated and checked.

vii. During the subsequent week different blocks/wings shall be selected so as to ensure that all the installation of the building is checked once in three months.
viii. The details of such weekly testing shall be conducted in presence of JE (E) and AE (E) in charge to the extent feasible and shall be recorded in register along with date, timing and findings.
ix. For watch and ward purpose, the firm may deploy staff as felt necessary and adequate.
x. Spare parts & accessories of the installations (other than detailed in Para 3.3 (below) if required, shall be made available to the firm by the department and the firm shall replace the same 'free of cost'.
xi. All dismantled material shall be deposited to the JE (E) in-charge at his site store.
xii. Remarks and observation regarding maintenance / malfunctioning of installations recorded in the log book / conveyed through message / letter shall be attended within 24 hrs. Failing which same shall be got rectified by the department at the risk and cost of the firm without entering into any correspondence and necessary recovery shall be made from the bill of the contractor.

2.0 Execution of Work

2.1 Before the start of contract, the contractor is bound to submit the following details of the workers proposed to be engaged by him. After receipt of confirmation of their suitability from Engineer-in-charge or his authorized representative, they deployed on duty.
a) Name & Postal Address
b) Photograph with specimen signature.
c) Qualification and experience.
Department reserve the right to reject/accept the staff without assigning any reason.

2.2 Before starting the work, the contractor shall take over the inventory as detailed in Annexure "A" and any shortcomings noticed at the time of taking over shall be brought out specifically. Failing which it shall be presumed that the site has been taken over in perfect working order.

2.3 On completion of the work against the agreement the inventory shall be handed over as directed by Engineer-in-charge or is authorized representative. In case any short fall or damage to the installation is noticed, the contractor shall make good the same with same make equipment of as directed by Engineer-in-charge. Failing to do so, the recovery shall be affected from any payment due to the contractor. The decision of Engineer-in-charge shall be final and building.

2.4 The following consumable materials & tool items for maintaining the installations shall be arranged by the firm at their own cost and shall be kept ready at site in sufficient quantity under the scope of work for which nothing extra shall be paid.

i) Tool & plant required to operate, repair servicing and maintain the installations, like spanners, goti sets, screwdriver, crow bars, multimeter, vacuum cleaner and required T&P.

3.0 Compliance to rules, regulations and specifications.

3.1 The contractor shall take over the site as per inventory before starting the work and shall hand over the same on conclusion of the agreement.

3.2 The work shall be carried out as per CPWD General Specification for electrical works as amended. Wherever applicable, or as directed by Engineer-in-charge or his authorized representative.

3.3 The safety procedures as indicated in Appendix-E to the "General specification for Electrical Work (part-internal 1994)" shall be duly followed.

3.4 Strict compliance CPWD contractor's labour regulations, incorporated in **"CPWD General Conditions of Contract"** shall be ensured.

4.0 **Terms of execution of work.**

4.1 The contractor shall furnish Name & Contact Number of the person, who should be contacted during emergency.

4.2 For any staff found missing from duty shall be marked absent and recovery shall be made for the day at the rates given below. It is the responsibility of the contractor to make alternative arrangement, in case, any staff proceeds on leave / for reliever duty, on failure, the recovery shall be made from bill at the rate given below:

4.3 All the cleaning material i.e. soap, duster etc. shall be arranged by the contractor at his own cost. If cleaning of installation is found unsatisfactory at any time, a recovery of Rs.200/- per occasion shall be made.

4.4 No T & P shall be issued to the contractor.

4.5 The department reserves the right to terminate the contract in full or part there of or can shift any worker at any other site, as required, without assigning any reason.

4.6 The contractor shall replace the staff, in the event of misconduct by him.

4.7 The contractor shall maintain "attendance register" in support of the attendance of staff and the same shall be got periodically checked from concerned JE (E) / AE (E). On termination of the contract this shall be the property of department

Weekly / Monthly / Six Monthly checks to be conducted for Fire Alarm System and Exit Sign Boards.

- **Weekly Checks**

i. Clean all control Panel, sounders, call boxes and exit sign boards.
ii. While cleaning each panel verify whether the fault indication lamp is ON. If it is ON, with or without alarm, investigate and rectify the fault.
iii. Check whether all panels' lamps are healthy by the "panel lamp test button".
iv. Check that the system operates under main failure condition, by switching of the main supply to the C&I panel and testing any zone for fault / fire condition from the zonal panel. Confirm also that the visual alarm comes up in the C&I panel. Restore the main supply after the test.
v. Log all the panel instruments in C&I panel.
vi. If lead acid batteries are used in system, check the electrolyte level specific gravity.

- **Monthly Checks**

i. Check all zonal, repeaters panel and C&I panels.
ii. Confirm the operation of each zonal panel and C&I panel.
iii. Through test button i/c audio / video indication and Check the talk back system from both ends and also PA system of C&I panels.
iv. Check that the air conditioning / ventilation blower are automatically switched off, when fire condition is simulated by the test button in zonal panel (if AC system is not interconnected in the fire alarm system get the interconnection with the consent of department).

v. Check the batteries condition, charger battery terminals. Replaced old grease with the fresh grease on the terminal of battery.

- **Six Monthly Check**

i. All fire detectors should be cleaned by proper suction device.
ii. Check the satisfactory operation of the system by an artificial fire in a bucket. Keep necessary extinguishers with you, before the test as abundant precaution.

Note:- Failure to do above daily / monthly / quarterly / six monthly / Yearly checks shall attract a recovery as per decision of Engineer—in-charge & decision of Engineer-in-charge shall be final & binding to agency

Assistant Engineer(E) P
DED-302, CPWD,
R K Puram New Delhi-66

Executive Engineer (E)
DED-302, CPWD,
R K Puram New Delhi-66

SCHEDULE OF WORK

Name of Work:- **Running and maintenance of Various E&M services in the O/o CRPF at EB VII, R.K. Puram, New Delhi. Sub-work / Packages (A) Internal & External Electrical installation & Operation of 1 X 380 KVA DG set (Greaves make) (B) Fire Alarm system.**

S. No	Description of Items	Qty.		Rate	Unit	Amount
1	Day to day maintenance of Internal & External Electrical installation and Operation of 1 x 380 KVA DG Set (Greaves make) & 1 x 200 KVA DG Set (Greaves make) with AMF Panels in the O/o CRPF at EB VII, R.K. Puram, New Delhi by providing following experienced /trained /qualified minimum staff for operation in on all days including Saturday, Sunday and Holiday i/c attending the routine maintenance and routine faults (Details of equipment's, Manpower, Qualification of manpower, recovery in case of absent of manpower & terms & condition.					
1.1	Wireman cum E&M operator -2 Nos. (06:00 Am to 02:00 PM & 02:00 PM to 10:00 PM, on all days of week i/c Saturday, Sunday & Holidays)					
1.2	Khallasi-1 Nos. (In General shift on all days of week i/c Saturday, Sunday & Holidays)	12	Months	117403	Per Month	1408836.00
2	Maintenance of Fire alarm system including all related equipment's in the O/o CRPF at EB VII, R.K. Puram, New Delhi.					
A	Engineer -1 Nos.(Two visit in a month or as and when reqd.)	12	Months	2557	Per Month	30684.00
Total						**1439520.00**

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