NOTICE INVITING FOR e-TENDER

NAME OF WORK: Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work).

I N D E X

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Assistant Engineer (P) (Elect.)

Certified this NIT amounting to **Rs. 1,33,85,310/- (Rupees One Crore Thirty Three Lakh Eighty Five Thousand Three Hundred Ten only)** contains **1 to 76 pages** in chronological order.

Approved

Superintending Engineer
DC-V, CPWD,
R.K. Puram, New Delhi

PART – A

General Information

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

The **Executive Engineer (E), Delhi Electrical Division-51, CPWD, East Block-III, Level-VII, R.K. Puram, New Delhi (deleedced7.cpwd@nic.in, 011-20863331)** on behalf of President of India invites online percentage rate bid from the approved and eligible B&R category contractors of CPWD under Building & Road Category for the following work: of CPWD under Building & Road Category

S.No.	NIT No.	Name of work & Location	Estimated Cost put to tender	Earnest Money	Stipulated Period of Completion	Last date & time of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document	Date & time of opening of bid
1	2	3	4	5	6	7	8
1	09/SE/DC-5/ NIT/ 2026 -27	**Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work)**	Elect. Rs. 1,33,85,310/-	Rs. 2,67,706/-	06 months	Up to 3:00 PM on 10.11.2026	3:30 PM on 10.11.2026

(* To be filled by EE, CPWD)

Note: Only the enlisted contractors of Class-III, IV and V by the Enlisting authority i.e. SDG (Chandigarh), ADG (Chandigarh), ADG (Lucknow), ADG (Jammu), ADG (DR) and ADG (PRD) shall tender within their tendering limit and tendering jurisdiction i.e. Punjab, Chandigarh, Rajasthan, Haryana, Uttarakhand, Himachal Pradesh, Uttar Pradesh, Jammu & Kashmir, Leh & Ladakh and Delhi as per the Rules for Enlistment of Contractors in CPWD-2026. Further, the enlisted contractors of Class-III, IV and V shall also have to meet the other requirements of eligibility as per NIT conditions.

1. **CPWD enlisted contractor in appropriate class will be eligible for bidding.**
2. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
3. Information and Instructions for bidders posted on website shall form part of bid document.
4. 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, free of cost.**
5. But the bid can only be submitted after deposition of Original EMD in the Office of **Executive Engineer inviting bids** or division office of any Executive Engineer, CPWD within period of bid submission and uploading the mandatory scanned documents such

as Demand Draft or Pay order or Banker`s Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank EMD in favour of **EE, CPWD, Delhi Aviation Division, Delhi, receipt for disposition of original EMD to the division of any Executive Engineer (including NIT issuing EE/AE, CPWD)** and other documents as specified.

6. Those contractors who are not registered or have not uploaded their profile on the website mentioned above, are required to get registered/ update their profile beforehand. The necessary training material including the videos with step to step process are available on download section of http://etender.cpwd.gov.in.

7. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations/transactions on the e-tendering portal/website and the bidder should download and install the eMsigner on their system as per instructions available on download section of **http://etender.cpwd.gov.in.**

8. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.

9. Contractor can upload documents in the form of **JPG** format and **PDF** format.

10. It is mandatory to upload scanned copies of all the documents stipulated in the bid documents. If the documents stipulated in the bid documents are not uploaded, then bid will become invalid and shall summarily be rejected.

11. Contractor must ensure to quote rate in the prescribed column(s). The column(s) meant for quoting rate in figures appears in **yellow** colour and the moment rate is entered, it turns sky blue.

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

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

12. The department reserves the right to reject any or all bids without assigning any reason thereof and may restrict the list of qualified bidders to any number deemed suitable by it, if too many bids are received satisfying the minimum laid down criteria.

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

    While submitting the revised bid, bidder can revise the quoted rates of one or more items any number of times but before last date and time of submission of bid as notified.

14. The bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent upon any misunderstanding or otherwise shall be allowed.

15. The tenderer should read all the instructions, terms & conditions, contract clauses, nomenclature of items, specifications etc. contained in the tender document very carefully, before quoting the rates.

16. The tenderer should also read the **General condition of contract for Maintenance works 2023 (**amendments issued up to **previous day of the last date of submission of the tender)** published by the DG(W) CPWD, New Delhi which will be part of the agreement with up to date of amendments.

17. Tenders with any condition including that of conditional rebates in the tender document shall be rejected forthwith.

18. GST and all other taxes/levies on materials as applicable shall be paid by the contractor himself. The contractor shall quote his rates considering all such taxes.

19. The contractor shall not store / dump construction material or debris on metalled road.

20. The contractor shall ensure that C&D waste is transported to the C&D Waste site only and due record shall be maintained by the contractor. Nothing extra shall be paid on this account.

21. The contractor shall comply all the relevance NGT/Ministry of Environment and Forest norms related to air pollution from construction and demolition activities.

22. The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.

23. Contractor shall follow all the directions under Section 12 of Commission for Air Quality Management in National Capital Region and Adjoining Areas Ordinance, 2021 issued vide letter no. A-110016/12/2020/CAQM-C&D/459 dated 11.06.2021 and all subsequent direction (if applicable). Nothing extra shall be paid on this account.

24. In e-tendering, the intending bidder does not sign any document physically and entire bid document is submitted through digital signature.

25. Intending bidders may upload and submit milestones on the basis of their resources and methodology at the time of tendering as indicated in the table under clause 5 of “Schedule-F” otherwise it will be assumed that the bidder is agreeable to milestones mentioned in table.

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

For CPWD enlisted contractor

1.	Enlistment order copy. Contractor registration in appropriate class of composite category of CPWD.
2.	Receipt of Earnest money deposit submission and Copy of EMD.
3.	GST registration certificate, if already obtained by the bidder. If the bidder has not obtained GST registration **as applicable**, then he shall scan and upload following undertaking along with bid documents. "If work is awarded to me, I/We shall obtain GST registration certificate, **as applicable**, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard".
4.	Copy of valid Electrical contractor licence or undertaking to associate the electrical contractor.
5.	Detail of Agency **(Form–B)**
6.	Affidavit **(Form – C) –** I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back-to-back basis or subletting 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.
7.	Copy of PAN card.
8.	Sample Consent letter of Contractor for e-MB **(Form-E)**
9.	Format For Undertaking For Site Inspection **(Form-D)**
10.	Certificate of compulsory ERP (Enterprise Resource Planning) training issued through LMS of ERP
11.	**Form – F** (Affidavit for blacklisting)

FORM – A

FORMAT FOR DEPOSITING EARNEST MONEY
Receipt of Depositing of Original EMD
(Receipt No……..
Dated……..…..)

1	Name of work:	**Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work)**
2	NIT No.:	**09/SE/DC-5/NIT/2026-27**
3	Estimated Cost	**Rs. 1,33,85,310/-**
4	Amount of EMD:	**Rs. 2,67,706/- (in favour of Executive Engineer, CPWD, Delhi Aviation Division, Delhi)**
5	*Last date of submission of Bid:	**10.11.2026 upto 4:00 PM**
(* To be filled by NIT approving authority/EE at the time of issue of NIT and uploaded along with NIT)		

 # To be filled by EMD receiving officer

1. Name of contractor :
   ……..
2. Form of EMD No. & Date :
   ……..
3. Amount Earnest Money Deposit :
   ……..
4. Date of submission of EMD :
   ……..

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

FORM –B

DETAIL OF AGENCY

1.	**Name of the agency**	**:**	
2.	**Correspondence Address**	**:**	
3.	**Name of the authorized person for contact**	**:**	
4.	**Official contact number on which contractor is available for the department**	**:**	
5.	**Official e-mail for correspondence**	**:**	

FORM – C

AFFIDAVIT

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis or subletting 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)

Signature of bidder(s) with stamp

Form – 'D'

FORMAT FOR UNDERTAKING FOR SITE INSPECTION

To

The Executive Engineer (E)
Delhi Electrical Division-51, CPWD,
R.K. Puram, New Delhi.

I/we hereby give an undertaking for the given work as follows:

NIT No. : - 09/SE/DC-5/NIT/2026-27

Name of work: Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work)

I/we have inspected and examined the site and its surroundings and is / are satisfied before submitting our bid 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, I/we may require and in general shall myself / ourselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid. I/we shall be deemed to have full knowledge of the site whether I/we inspect it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. I/we shall be responsible for arranging and maintaining at our own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents.

Submission of a bid by me/us implie(s) that I/we have read this notice and all other contract documents and has made myself / ourself 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 us by the Government and local conditions and other factors having a bearing on the execution of the work.

I/We have understood that due to Security restriction, permission for entry of labours is given only to those labourers/Supervisors who have valid ID Proof like Aadhar Card, Driving License, Ration Card, PAN Card or any other proof issued by Govt. Department with daily verification. Further no accommodation for stay of labour beyond working hours shall be provided inside the premises.

I/We have understood that the work is to be executed in the premises which are under high security restrictions of client department. Stringent restrictions are imposed by the security authorities on the working and movement of labour, materials etc. He shall be bound to follow all such restrictions. He will have to submit names of the persons & workmen whom he proposed to engage at least two days in advance along with police verification so that entry permits are issued by the security authorities. If he fails to observe this condition the entry of labourers will not be possible. No claim of damages due to loss of man hours will be admissible.

Place :
Date :

Yours faithfully

(Signatures of Bidder(s))

Form – E

Sample Consent letter of Contractor for e-MB
Letter Head of Contractor

To

The Executive Engineer (E)
Delhi Electrical Division – 51,
CPWD, East Block-III,
Level-VII, R.K. Puram,
New Delhi.

Name of work: **Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work)**

NIT No. **09/SE/DC-5/NIT/2026-27**

Sir,

With reference to the above cited work and agreement, I hereby submit my Consent for recording of online measurement on CPWD ERP system and making payment of work done on the basis of online submission of measurements of CPWD ERP System.

Yours faithfully,

Dated……
Place……

(Signature of Contractor/authorized representative)
Name & Seal)

Form –F

AFFIDAVIT TO BE SUBMITTED BY AGENCY FIRM / CONTRACTOR

To,

The Executive Engineer(E)
Delhi Electrical Division-51,
CPWD, East Block-III,
Level-VII, R.K. Puram,
New Delhi.

Name of work: **Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work).**

NIT No. **09/SE/DC-5/NIT/2026-27**

Sir,

I/We have read and examined the details given in Bid Document for the above works, I/We undertake

a. I/We have not been debarred/ Blacklisted by any Central/ State/ Autonomous body of Centre as on the date of submission of bid.
b. I/We are not misleading or submitted any false representations in any forms, statements and attachments submitted with the bid.

Further that, if any of such a violation comes to the notice of the Department, then I / we shall be debarred from tendering in future forever.

Yours faithfully,

Dated……
Place……

(Seal and Signature of Bidder/
Authorized Signatory of Firm)

Note:-
Affidavit to be furnished on a non-judicial stamp paper with Rs. 100.00/- to be made under witness of public notary.

On Non- Judicial Stamp Paper of Minimum Rs.100

(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
FORM OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT/PEFORMANCE GUARANTEE SECURITY DEPOSIT/MOBILIZATION ADVANCE

1. Whereas, the Executive Engineer …… (name of division) ……..., CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under ……(NIT number)…….dated……. for …….name of work)……The Government has further agreed to accept irrevocable Bank Guarantee for Rs. ……. (Rupees …….. only) valid upto …… (date)* …… as Earnest Money Deposit from ……(name and address of contractor) …….(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the Executive Engineer ..... (name of division) ....., CPWD 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) ..... 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 Government an amount not exceeding Rs…… (Rupees..... only) on demand by the Government within 10 days of the demand.

3. We, ……. (indicate the name of the Bank) ……., do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from 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 Government any money so demanded not withstanding 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 Government 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 Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, …….. (indicate the name of the Bank) ……., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a Principal debtor at the first instance without proceeding against the Contractor and not withstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

8. We, …….. (indicate the name of the Bank) ……., undertake not to revoke this guarantee except with the consent of the Government in writing.

9. This Bank Guarantee shall be valid up to …… unless extended on demand by the Government. Not with standing 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 .....

Witnesses:

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-6 FOR e-Tendering
GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER

1. **The Executive Engineer(E), Delhi Electrical Division-51, CPWD, East Block-III, Level-VII, R.K. Puram, New Delhi (deleedced7.cpwd@nic.in, 011-20863331)** invites on behalf of President of India online percentage rate tender from approved and eligible contractor of appropriate class of B&R category of CPWD for the following work:

   Improvement & Upgradation of fire fighting & fire alarm system at HQ NSG Palam, New Delhi (Electrical Work)

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

   In case 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. 1,33,85,310/-.** This estimate, however, is given merely as a rough guide. The eligibility of the bidder will correspond to the combined estimated cost of different components put to bid.

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

1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:

2. Agreement shall be drawn with the successful bidder on prescribed Form No. CPWD-7 which is available as a Govt. of India Publication and also available on web site www.etender.cpwd.gov.in or www.cpwd.gov.in or www.eprocure.gov.in**.** Bidder shall quote their 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 **06 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 tender documents.

4. The site for the work is available.

   Accordingly, intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (copy of indicative soil investigations attached with this NIT), 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 bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra claims/payments 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 bid 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 local conditions and other factors having a bearing on the execution 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 or www.cpwd.gov.in or www.eprocure.gov.in free of cost.

6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified. No post-tender modification is allowed by the tenderers except through negotiations, if required. In case, any tenderer does so, the tender will be rejected and the tenderer will be debarred for future tendering in CPWD for two years by the concerned enlisting authority (in case of CPWD enlisted contractor) and by the concerned CE/SE(in case of non-enlisted contractor).

7. Only e-bids shall be accepted through www.etender.cpwd.gov.in. Agencies willing to participate in this bidding process, if not already registered, should get themselves registered beforehand with M/s ITI Limited, New Delhi India through their e- gateway by credit/debit card or internet banking or RTGS/NEFT facility**.**

8. **Earnest Money Deposit/Bid Security:-**

   Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker`s Cheque or Deposit at Call Receipt or fixed deposit receipt **(drawn in favour of Executive Engineer, DAD, CPWD, R.K. Puram, New Delhi)** all shall be scanned and uploaded to the e-Tendering website within the period of bid submission.

9. Copy of certificate of work experience and other documents as specified in the Notice Inviting Tender (NIT) documents for eligibility shall be scanned and uploaded to the e-tendering website within the period of bid submission **(If applicable)**. However, certified copy of all the scanned and uploaded documents as specified in Notice Inviting Tender (NIT) shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority. **Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order. (Not applicable).**

10. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited e-processing fee with M/s ITI Limited and earnest money deposit and other documents scanned and uploaded are found in order. **(If applicable)**.

11. **The intending bidders, will send their queries / doubt for clarification by e-mail to Executive Engineer (E), Delhi Electrical Division-51 latest by upto 12:00 PM dated 09.11.2026 (date to be filled by EE).**
    E mail ID – deleedced7.cpwd@nic.in

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

13. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

14. The bidder whose bid is finally accepted will be required to furnish performance guarantee (PG) shall be 5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher (O.M. No. DG/Manual-2024/20 Vidyut Bhawan, New Delhi Dated: 27.02.2026) as mentioned in schedule F and within the period specified in schedule F. A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.

    Requirement of Additional Performance Guarantee (APG) in case of abnormally low bids as defined above, the bidder Shall be required Submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be 0.8A - 0.7A). Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.

    This Performance Guarantee (PG)/ and Additional Performance Guarantee (APG) shall be 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 bank in accordance with the prescribed form.

    In case, the Bidder fails to deposit the said Performance Guarantee (PG)/ and Additional Performance Guarantee (APG) within the period as indicated in Schedule-‘F’ including the extended period if any, the bidder agrees that the President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to suspend the bidder for one year and shall not be eligible to bid for CPWD tenders from date of issue of suspension order.

15. 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 assigning any reason. Department may restrict the list of qualified bidders to any number deemed suitable by it, if too many bids are received satisfying the minimum laid down criteria.

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

17. 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.

18. The bidder shall not be permitted to bid for works in the CPWD Circle(Division in case of Bidders of Horticulture / Nursery category) responsible for award and execution of contracts, in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the bidder would render him liable to be removed from the approved list of Bidders of this Department i.e. CPWD.

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

20. The bid for the works shall remain open for acceptance for a period of **30 (thirty) days** from the date of opening of bid. In case, the bidder withdraws their 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 Engineer-in-Charge on behalf of President of India shall, without prejudice to any other right or remedy, may take action as per Form-A of Performa for EMD Declaration.

(i) If and tenderer withdraws his tender within 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

(ii) If and tenderer withdraws his tender after expiry of 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely respective of letter of acceptance for the work is issued or not.

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

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

(a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

(b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.

22. **For Composite Tenders**

22.1 The work shall be executed either by the bidder or through the associated agency but subjected to be fulfillment of following eligibility criteria:-

S.No.	Specialized work(s)/ item of work(s)	Eligibility Criteria of Associated Agencies
1.	**SITC of Fire Fighting System** **Estimate Cost: Rs. 84,81,750.00**	The contractor shall have to associate with agency fulfilling the following eligibility criteria (if he himself does not full fill the eligibility criteria) having successfully completed during last seven years ending up to previous day of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent duly attested. **Three similar completed works each of value not less than Rs. 33,92,700.00 which is 40% of estimate cost** **OR** **Two similar completed works each of value not less than Rs. 50,89,050.00 which is 60% of estimate cost** **OR** **One similar completed work of value not less than Rs. 67,85,400.00 Lakhs which is 80% of estimate cost** **Similar work shall mean "SITC of Fire Fighting System"**
2.	**SITC of Fire Alarm System** **Estimate Cost: Rs. 51,01,628.00**	The contractor shall have to associate with agency fulfilling the following eligibility criteria (if he himself does not full fill the eligibility criteria) having successfully completed during last seven years ending up to previous day of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent duly attested. **Three similar completed works each of value not less than Rs. 20,40,651.00 which is 40% of estimate cost** **OR** **Two similar completed works each of value not less than Rs. 30,60,977.00 which is 60% of estimate cost** **OR** **One similar completed work of value not less than Rs. 40,81,302.00 Lakhs which is 80% of estimate cost** **Similar work shall mean "SITC of Fire Alarm System"**

22.2 The eligible bidders shall quote rates for all items of bid documents.

22.3 After acceptance of the bid by the competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India for execution of work and shall draw the agreement accordingly. Thus the main contractor will have to enter into agreements with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE in charge of minor components. One such signed set of agreement shall be handed over to EE in charge of minor component(s) of work. EE of major component will operate Part-A & B, Engineer in charge of minor component shall operate Chapters Part-A & Part-C. EE of the major component shall operate the agreement in general.

22.4 Entire main work under the scope of composite bid including major and all minor components shall be executed under agreements depending upon major and number of minor components at station as stated in above paras.

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

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

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

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

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

22.10 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.

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.

22.11 The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the schedule of financial bids in this tender document, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

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

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

22.14 The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions.

22.15 In the case of discrepancy between the Schedule of Quantities, the Specifications and/ or the Drawings, the following is order of preference:-

(i) Description of Schedule of Quantities.
(ii) Scope of Work
(iii) Particular Specification and Special Condition, if any.
(iv) Drawings.
(v) CPWD Specifications.
(vi) Indian Standard Specifications of B.I.S.

Executive Engineer (E)
Delhi Electrical Division-51
CPWD, R.K Puram, New Delhi

CPWD-7

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE	Delhi	CIRCLE	Delhi Circle –V
REGION	ADG (RD)	DIVISION	Delhi Electrical Division-51

Composite Percentage Rate Tender & Contract for Works

1. Tender for the work of :-

Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work).

(i) To be submitted online by 3:00 PM (time) hours on 10.11.2026 (date) to Executive Engineer (E), Delhi Electrical Division-51, East Block-III, Level-VII, CPWD, R.K. Puram, New Delhi.

(ii) To be opened online in presence of tenderers who may be present at 3:30 PM hours on 10.11.2026 in the office of Executive Engineer (E), Delhi Electrical Division-51, East Block-III, Level-VII,CPWD, R.K. Puram, New Delhi.

_*___ To be filled by EE

TENDER

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

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

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

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

A copy of Earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety bonds, account payee demand draft, fixed deposit receipt, Banker's cheque or bank guarantee (as prescribed) issued by a commercial bank, is scanned and uploaded (strike out as the case may be).

If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors

in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit 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 (General Conditions of Contract for Construction CPWD works – 2020). Further, I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

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

Witness: **

Address: ** **Postal Address ****

Occupation: **

ACCEPTANCE

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

PROFORMA OF SCHEDULES (Electrical)

SCHEDULE 'A' Schedule of quantities (as per PWD 3) ---	Enclosed from **Page No. 67 to 76**

SCHEDULE 'C'
Tools and plants to be hired to the contractor :

S. No.	Description	Hire charges per day	Place of issue
1	2	3	4
---------- NIL ----------			

SCHEDULE 'D' Extra schedule for specific requirements/ document for the work, if any	NIL

SCHEDULE 'E'

Reference to General Conditions of contract		GCC for maintenance work -2023 for CPWD works along with correction slips/ amendments issued up to **previous day of the last date of submission of the tender** from the office of DG, CPWD.
Name of work :		**Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work).**
	Estimated Cost of Work	**Rs. 1,33,85,310/-**
(i)	Earnest Money :	**Rs. 2,67,706/-**
(ii)	Performance Guarantee	a. 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). b. Additional performance guarantee as per GCC OM No. DG/CON/Maintenance 2023/18 dated 27.02.2026 along with amendments issued up to previous day of the last date of submission of the tender from the office of DG, CPWD
(iii)	Security Deposit	2.5% of tendered value

SCHEDULE `F':
GENERAL RULES & DIRECTIONS:

Officer Inviting tender :		Executive Engineer (E), Delhi Electrical Division-51, CPWD or successor thereof
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with clauses 12.2 & 12.3.		See below
Definitions :		
2 (v)	Engineer-in-charge	Executive Engineer (E), Delhi Electrical Division-51, CPWD or successor thereof
2(viii)	Accepting Authority	Superintending Engineer, Delhi Circle-V, CPWD or successor thereof

2 (x)	Percentage on cost of material and labour to cover all overheads and profits	15 %
2 (xi)	Standard Schedule of Rates	DSR-2025 with correction slips up to **previous day of the last date of submission of the tender.**
2 (xii)	Department	CPWD
9 (ii)	Standard CPWD contract form (GCC 2023, CPWD Form 7/8 as modified & corrected upto)	CPWD General Conditions of Contract for Maintenance works – 2023, form 7 amended & corrected upto **previous day of the last date of submission of the tender.**
Clause 1:		
(i)Time allowed for submission of Performance Guarantee, Program chart (Time and Progress),and applicable labour licenses, registration with EPFO,ESIC and BOCW welfare board or proof of applying there off from the date of issue of letter of acceptance.		7 days
(ii) Maximum allowable extension with late fee @0.1% per day of performance guarantee beyond the period {provided in(i)}above		3 days
Clause 2:		
Authority for fixing compensation under clause 2.		Superintending Engineer Delhi Circle-V or successor thereof
Clause 2A Whether Clause 2A shall be applicable		Not Applicable
Clause 5:		
Number of days from the date of issue of letter of acceptance for reckoning date of start		10 days

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

Sl. no.	**Description of mile stone (s) (Physical)**	**Time allowed in days (From date of start)**	**Amount to be withheld in case of Non-achievement of Mile stone on agreement**
1.	Site survey and planning of execution work i/c Preparation of Working drawings	15 Days	1%
2.	Approval of drawing & TDS of material from the department and delivery of material, submission of execution plan	1 Months	1%
3.	Completion of 50% of installation work of the fire alarm and firefighting system	3 Months	1%
4.	Completion of balance 50% of installation work of the fire alarm and firefighting system	05 Months	1%
6.	Final testing and handover after obtaining Fire NOC from the local body.	06 Months	1%

TIME ALLOWED FOR EXECUTION OF WORK— 06 MONTHS	
Authority to decide:	
(i) Extension of time	Superintending Engineer Delhi Circle-V or successor thereof
(ii) Rescheduling of mile stones	Superintending Engineer Delhi Circle-V or successor thereof
(**iii**) Shifting of date of start in case of delay in handing over of site	Superintending Engineer Delhi Circle-V or successor thereof

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	Full Site	7th day of issue of L.O.I.
Part B	Portions with encumbrances	NIL	NA
Part C	Portions dependent on work of other agencies	NIL	NA

Clause 5 : Applicable Clause 5/ Clause 5A	5
Clause 6 : **Computerized Measurement Book (CMB)/ Electronic Measurement Book (EMB)** Mode of Measurement :	EMB through ERP
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	**25 lakhs** or As mutually agreed by both parties.
Clause 7A :	
Whether clause 7A shall be applicable	Yes
Clause 8A : Authority to decide compensation on account if contractor fails to submit completion plans	Superintending Engineer, Delhi Circle-5, CPWD or successor thereof
Clause 10 A: List of testing equipment to be provided by the contractor at site lab.	As per site requirement
Clause 10B(ii) :	
Whether clause 10B (ii) shall be applicable	**No**
Clause 10 C:-	

Component of labour expressed as percent of value of work	70%
Clause 10 CC:	Not Applicable
Clause 11: Specifications to be followed for execution of electrical work	1. CPWD General Specifications for Electrical Works Part-I Internal – 2023 2. CPWD General Specifications for Electrical Works Part-II External – 2023 3. CPWD General Specifications for Electrical Works Part-V Wet Riser & Sprinkler System – 2020 4. CPWD General Specifications for Electrical Works Part VI Fire Detection and Alarm System 2018.
Clause 12:	
Authority to decide deviation upto 1.5 times of tendered amount	Superintending Engineer, Delhi Circle-V or successor thereof **(The completion cost shall, in no case, exceed 1.5 times the contract amount)**
Type of work	**Maintenance Work**
12.3	No limit (All the deviated quantities shall be paid at agreement rates)
Clause 16:	
Competent Authority for deciding reduced rates	Superintending Engineer Delhi Circle-V or successor thereof
Clause 18: List of Mandatory machinery, tools and plants to be deployed by the contractor at site.	At per site requirement
Clause 19C	Rs 5000/- for each default
Clause 19D	Rs 1000/- for each default
Clause 19G	Rs 5000/- for each default
Clause 19K	Rs 2000/- for each default

Clause 25:

Dispute redressal Committee(DRC)shall contain the following officers

S.N	Constitution	Members
1.	Name of Chairman of DRC	Chief Engineer, New Delhi Zone-III, CPWD, New Delhi or successor thereof
2.	Name of DRC member Secretary	Superintending Engineer, Delhi Circle-4, CPWD, New Delhi or successor thereof
3.	Name of member DRC	Superintending Engineer, Delhi Circle-10, CPWD, New Delhi or successor thereof
4.	Case Presenter to DRC	Executive Engineer (E), Delhi Electrical Division-51, CPWD, New Delhi or successor thereof

Clause 32:

Requirement of Technical Representative(s) & recovery Rate:

Requirement of Technical Staff		Minimum experience (Years)	Designation of technical staff	Rate at which recovery shall be made from the contractor in the even of not fulfilling provision of clause-32
Qualification	Number (of Major + Minor Component)			
Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project Manager cum Planning/ quality/site/ billing Engineer	Rs. 15,000/- per month per person

Assistant Engineer retired from Government services who are holding Diploma will be treated at per with Graduate Engineer.

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

Clause 38:

(i) (a) Schedule/statement for determining theoretical quantity of cement on the basis of Delhi Schedule of Rates-2019 printed by CPWD with upto date correction slips

(ii) Variations permissible on theoretical quantities:

a) Cement For works with estimated cost put to tender not more than Rs. 5 lakh	3% plus/minus
For works with estimated cost put to tender more than Rs. 5 lakh	2% plus/minus
b) Bitumen All Work	2.5% plus & only & nil on minus side
c) Steel reinforcement and structural steel sections for each diameter, section and category	2% plus/minus
d) All other materials.	Nil

Clause 41:

The security deposit of the work shall be refunded if no labour complaint has been received from the labour officer till the due date of its payment as per clause 17 of applicable GCC. If a labour complaint is received during this period, the Engineer-in-charge shall, after issue of notice in this regard to the contractor, deduct the amount required to settle the complaint from his security deposit and refund the balance amount.

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/03

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 18.12.2023**

Subject: Modifications in Conditions of Contract, Clause 12 and Schedule E and F of GCC 2023 for Maintenance Works

The following amendments are made in the GCC 2023 Maintenance Works:

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- (i) to (x)(a)	**CONDITIONS OF CONTRACT** **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- (i) to (x) (a) **No change**
(x) (b) Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued upto the date of receipt of the tender.	(x) (b) Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued **previous day of the last date of submission of the tender.**
(xi) to (xv)	**(xi) to (xv) No change**
(xvi) No provision	**(xvi) Extra items** are those items which are not available in the contract. **a. Non Schedule Extra Items** are those items which are not available in the Standard Schedule of Rates specified in Schedule F. **b. Scheduled Extra Items** are those items which are available in the Standard Schedule of Rates specified in Schedule F.
(xvii) No provision	**(xvii) Completion cost: The completion cost includes gross amount of work done, amount of extra item(s) and deviation(s) and escalation amount admissible as per agreement etc.**

18/12/2023

R.K. JAIN

(EE (Contact)

(xviii) No provision	**(xviii) Maintenance work:** Maintenance work(s) are those work(s) which includes upgradation, aesthetic improvement, special repair, addition/ alteration, annual repair, comprehensive maintenance work etc.
Clause 12 Deviations/ Variations Extent and Pricing The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for other reasons and the contractor shall be bound to carry out the works in accordance with any instruction given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.	**Clause 12 Deviations/ Variations Extent and Pricing** **No change**
The completion cost of any agreement for maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration should not exceed two times the contract amount. Deviation upto 1.25 times of contract amount shall be approved by Engineer-in-Charge with recorded reasons. Deviation beyond 1.25 times upto 1.50 times of contract amount shall be approved by SE/CE (as applicable) with recorded reasons. In exceptional case, ADG/SDG (as applicable) shall have power to approve the deviation beyond 1.50 times upto 2.0	**The completion cost shall, in no case, exceed 1.5 times the contract amount.** **Contractor will devise a system to keep a watch on quantum of work taken up vis-a-vis balance items required to complete defined scope of work and will give the alerts to Engineer-in-Charge before taking up extra item(s), deviation(s) so that completion cost does not exceed above limit. Work executed beyond above limit will neither be recorded nor be paid.**

R.K. JAIN 2023
(EE (Contact)

times of contract amount with recorded reasons and take suitable corrective action.	**Engineer-in-Charge will verify and confirm the alerts before assigning deviation(s) and / or extra item(s) to the contractor. If additional work(s) is required to complete defined scope of work beyond above limit then Engineer-in Charge may take up such work(s) separately. The contractor will not have any claim(s) whatsoever on this account.**
12.1 The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows : (i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus (ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge	12.1 The time for completion of the works shall, in the event of any deviation**(s) and extra item(s)** resulting in additional cost over the **contract amount will** be extended, if requested by the contractor, as follows : (i) In the proportion **to** the additional cost of work, bears to the original **contract amount** plus (ii) 25% of the time calculated in (i) above.
12.2 Deviation, Extra Items and Pricing **Extra items are those which are not available in the contract.** For percentage rate tenders, the extra item(s) which are available in the standard schedule of rates specified in Schedule F, shall be paid as per the said schedule rate plus cost index (considered in the estimated cost put to tender) plus/minus percentage above/ below quoted on estimated cost put to tender. For item rate tenders, the extra item(s) which are available in the standard schedule of rates specified in Schedule F, shall be paid as per the said schedule rate plus cost index (considered in the	**12.2 Deviation, Extra Items and Pricing** **Deleted** **Deleted**

R.K. JAIN 4653
(EE (Contact)

estimated cost put to tender) plus/minus percentage above/ below worked out on the basis of overall contract amount and estimated cost of the work put to tender.	
In the case of extra item(s) which are not available in the standard schedule of rates specified in Schedule F, the contractor may within fifteen days of the receipt of order or occurrence of the item(s), submit claim for market rate(s), supported with proper analysis of rate and manufacturer's specification for the work, invoices, vouchers, etc. (as applicable),	**(a) Non Schedule Extra Item(s)** - The contractor, **shall** within fifteen days of the receipt of order **to execute extra item(s)** or occurrence of the item(s), submit **analysis of rate of extra item(s) based on the rate(s) of material(s) available in basic rate of Standard Schedule of Rate mentioned in schedule F and rate(s) of the material(s) based on tax paid bills which are not available in standard Schedule of Rate mentioned in schedule F. For this purpose, the basic rate of material(s) available in Schedule of Rate(s) mentioned in Schedule F will be enhanced or reduced by the applicable cost index, as the case may be.** **The rate(s) of the material(s) which are not available in Standard Schedule of Rates, mentioned in Schedule F, shall be based on, tax paid bill(s) for the material(s) as defined in** manufacturer's specification. **Material rate(s) from Standard Schedules of Rate(s) shall be given priority in the analysis of rate(s).** **The rate of extra item will be** **i. Analyzed rate(s) as above multiplied by (Contract amount divided by estimated cost put to tender), if tendered amount is below the estimated amount put to tender.** **ii. Analyzed rate, if the Contract amount is above the estimated amount put to tender.**
failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding.	Failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding.

R.K. JAIN
(EE (Contact)

Where the contractor submits claim for market rate(s) in the manner prescribed above, the Engineer-in-Charge shall, within 45 days of the receipt of the claims, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.	Where the contractor submits **analysis of rate(s) of extra item(s)** in the manner prescribed above, the Engineer-in-Charge shall, within **60** days of the receipt of the **analysis of rate**, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rate**(s) of extra item(s)**. The contractor shall be paid in accordance with the rate(s) so determined. **However provisional rate(s) on the basis of invoice will be allowed by the Engineer-in-Charge. Invoice shall be accepted only for material(s) not available in the Standard Schedule of Rates mentioned in Schedule F.** **The contractor while submitting the tax paid bill of purchased material(s) shall ensure that rate(s) of the materials are reasonable and lowest available in the market. If Engineer-in-Charge feels rates in tax paid bill(s) submitted by contractor are not reasonable then he can modify the rate(s) after giving a notice to the contractor. Engineer-in-Charge is the final authority to decide applicable rate(s) of material(s).**
(b) No Provision	**(b) Scheduled Extra Items** **i. For percentage rate tender, the extra item(s) shall be paid as per the Standard Schedule of Rates, mentioned in Schedule F, enhanced or reduced by the applicable cost index and further enhanced or reduced by percentage above/ below quoted by the contractor on estimated cost put to tender.** **ii. For item rate tender, the extra item(s) shall be paid as per the said schedule rate enhanced or reduced by the applicable cost index and multiplied by (Contract amount divided by estimated cost put to tender).**

R.K. JAIN
(EE (Contact)

	Applicable GCC is ..... as modified & corrected upto previous day of the last date of submission of the tender. **(NIT approving authority to mention one GCC in the space provided above)**
SCHEDULE 'F' GENERAL RULES & DIRECTIONS: Officer inviting tender ..... Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3. See below	**SCHEDULE 'F'** GENERAL RULES & DIRECTIONS: **No Change** **Deleted**
9 (ii) Standard CPWD contract Form GCC 2020, CPWD Form 7/ 8 as modified & corrected upto	9(ii) Standard CPWD contract Form **General Conditions of Contract Maintenance Works 2023,** CPWD Form 7/ 8 as modified & corrected upto **previous day of the last date of submission of the tender.**
Clause 12 12.2 Deviation Limit beyond which clauses 12.2 shall apply for building work	**Clause 12** **Deleted**

This issues with the approval of DG CPWD.

18.12.2023
(वी. पी.साहू)
अधीक्षण अभियंता(सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2023/Maintenance e-file 9163323

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनिवि वेबसाईट के माध्यम से)

18/12/2023
R.K. JAIN
(EE (Contact)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/10
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 09.10.2024**

Subject: Modifications in Clause 10A of GCC 2023 for Maintenance Works.

The following amendment is made in the Clause 10A of GCC 2023 for Maintenance Works:

Existing provision	Modified provision
Clause 10A Materials to be provided by the contractor The contractor shall ..... as specified in Schedule F.	**Clause 10A Materials to be provided by the contractor** **(i)** No Change
No Provision	**(ii) Maintenance of Material at Site (MAS) Register** **(a) MAS register of the key materials including Cement, Steel Bitumen, Paint, Primer, Distemper, Varnishes, Tile Adhesive, Admixture, Anti termite chemical Water proofing compound material and other items as required by Engineer-in-Charge, and shall be maintained as per proforma in Appendix-XX of GCC. All the entries in the MAS registers are made by the designated staff of the contractor and same is reviewed weekly by the authorized representative and fortnightly by the Engineer-in-Charge. However, contractor is responsible for maintenance and safe custody of MAS registers.**
(b) No provision	**(b)The self-attested copies of tax paid bill of all the materials entered in the MAS register shall be submitted by the contractor at the time of review by representative of Engineer-in-Charge. In case of any doubt, genuineness of the tax paid bills; it can be verified by the representative of the Engineer-in-Charge or the Engineer-in-Charge, however, onus of genuineness of tax paid bills rest with the contractor.**

09.10.24
R K SINGH
EE(Manual)

1/2

Appendix-XX

REGISTER OF MATERIAL AT SITE (MAS)

1. **Division/Sub-division** .....
2. **Name of Work** .....
3. **Name of Article/Item** .....
4. **Estimated Requirements** .....

S. No.	Date of Receipts (Details of Challans/ Bills, Specific location wherePlants and Materials received/ Vehicle No.	Received from/ Issued to	Quantity Received	Date of issue	Specific location where Plants& Materials Displayed / Delivered / issued	Quantity Issued	Balance Quantity	Signature of authorized representative of contractor	Signature of authorized representative of Engineer-in-Charge/ AE/EE/	Remarks
1	2	3	4	5	6	7	8		9	10

This issues with the approval of DG, CPWD.

(दिनेश कुमार उज्जैनिया)
अधीक्षण अभियंता (सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/ Maintenance/2024
e-file 9184028 (DFA/9301389)

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

09.10.24
R K SINGH
EE(Manual)

2/2

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/ Maintenance 2023/18
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD
VIDYUT BHAWAN, NEW DELHI **Dated: 27.02.2026**

Subject: Modifications in General Rules & Directions, Clause 1 and Schedule E of GCC 2023 Maintenance Works

The following modifications are made in the General Rules & Directions, Clause 1 and Schedule E of GCC 2023 Maintenance Works.

Existing provision	Modified provision
General Rules & Directions 11 (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E' and within the period specified in Schedule F.	**General Rules & Directions** 11 (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee as mentioned in Schedule 'E' and within the period specified in Schedule F. .....
Clause 1 **Performance Guarantee** (i) The contractor shall submit an irrevocable Performance Guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance.	**Clause 1** **Performance Guarantee** (i) The contractor shall submit an irrevocable Performance Guarantee as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. .....
Sl. No. (ii) to (v)	No change
SCHEDULE 'E' Reference to General Conditions of contract Sl. No. (i)	**SCHEDULE 'E'** Reference to General Conditions of contract No change

27/2/26
EE(C)
D.P. Jindal
EE (Contract)

(ii) Performance Guarantee : 5% of tendered value.	(ii) Performance Guarantee : **(a)** 5% of tendered value **or Estimated Cost Put to Tender (ECPT) (whichever is higher).** **(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.**
Sl. No. (iii)	No change

This issues with the approval of DG, CPWD.

27.02.2026

(चन्द्रपाल) (सी.एण्ड एम.)
Chander Pal, SE (C&M)

अधीक्षण अभियंता (सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2026/ Maintenance e-file 9212995 (DFA/ 9365660)

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनिवि वेबसाईट के माध्यम से)

27/2/26
EE(C)
D.P. Jindal
EE (Contract)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/19
ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi Dated: 25.03.2026

Subject: Modifications in Clause 6 and Schedule 'F' of GCC 2023 Maintenance Works

The following modifications are made in the Clause 6 and Schedule 'F' of GCC 2023 for maintenance works, for annual repair and maintenance works, special repair works, comprehensive maintenance works and upgradation works amounting upto Rs. 10 crores in Delhi only.

Existing provision	Modified provision
Clause 6: Computerized Measurement Book (CMB)/ Electronic Measurement Book (EMB) through CPWD ERP portal	**Clause 6: Computerized Measurement Book (CMB)/ Electronic Measurement Book (EMB) through CPWD ERP portal**
Engineer-in-Charge ..... with the contract.	Engineer-in-Charge ..... with the contract.
All measurements and levels of work done during the period covering latter half of the preceding calendar month and first half of the calendar month shall be recorded by the contractor and compiled in the shape of the Computerized Measurement Book (CMB) / Electronic Measurement Book (EMB) through CPWD ERP portal / Computerized Level Book (CLB) respectively having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works executed under the contract during the said period. The proforma Computerised Measurement and level books (along with soft copy) shall be submitted in triplicate through letter of transmittal to the Engineer-in-charge giving details of number of CMBs / CLBs and their number of pages by 20th day of every calendar month.	All measurements and levels of work done during the period covering latter half of the preceding calendar month and first half of the calendar month shall be recorded **either** by contractor **or jointly by department and contractor as specified in Schedule F** and compiled in the shape of the Computerized Measurement Book (CMB) / Electronic Measurement Book (EMB) through CPWD ERP portal / Computerized Level Book (CLB) respectively having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works executed under the contract during the said period. The proforma Computerised Measurement and level books (along with soft copy) shall be submitted in triplicate through letter of transmittal to the Engineer-in-charge giving details of number of CMBs / CLBs and their number of pages by 20th day of every calendar month..
In case of EMB, ... calendar month.	**No change.**

25/3/26
D.P. Jindal
EE (Contract)

Correction – Nil Deletion – Nil Insertion – Nil Overwriting – Nil AE(P)(E)

All such monthly ..... his/her authorized representative.	**No change.**
In case of CMB/CLB, ... corrected and authorized proforma CMB / CLB.	**No change.**
In case of EMB, ... record of measurements available on ERP Portal.	**No change.**
Once the Engineer-in-charge ..... number of the CMB / CLB /EMB to the Contractor.	**No change.**
If the contractor fails ..... Clause 25 of this GCC.	**No change.**
Resources deployed ..... shall be sent to the contractor for his record.	**No change.**
The contractor ..... the Engineer-in-Charge or his/her representative.	**No change.**
Except where any ..... is available then a mutually agreed method shall be followed.	**No change.**
The contractor shall ..... the same was executed.	**No change.**
Engineer-in-Charge or ..... to such checking of measurements or levels.	**No change.**
It is also a term of ..... defects liability period.	**No change.**
PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders) Clause 6 : Computerised Measure Book (CMB) / Electronic Measurement Book (EMB)	**PROFORMA OF SCHEDULES** **(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)** **Clause6: Computerised Measurement Book (CMB) / Electronic Measurement Book (EMB)**

25/3/21

D.P. Jindal
EE (Contract)

Mode of measurement : CMB / EMB Note:- One option to be kept by NIT approving authority	**(a)** Mode of measurement: CMB/ EMB **(b) Measurement to be recorded either by contractor or jointly by department and contractor.** **Note:-Only** one option to be kept by NIT approving authority **in (a) and (b)**

This issues with the approval of DG, CPWD.

25.03.202

(चन्द्र पाल)
अधीक्षण अभियंता (सी.एंड एम.)
चन्द्र पाल, अधी. अभि. (सी. एण्ड एम.)
Chander Pal, SE (C&M)

Issued from file No. CSQ/CM/17(1)/2023/Maintenance
e-file 9195855 (DFA/ 9355745)

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

25/3/26

D.P. Jindal
EE (Contract)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/20

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi Dated: 18.08.2026

Sub: Modification in Clause 19K: Deployment of Skilled/Semi-Skilled Tradesmen for GCC 2023 Maintenance Works.

Following modification is made in Clause 19K: Deployment of Skilled/Semi-Skilled Tradesmen for GCC 2023 Maintenance Works.

Existing Provision	Modified Provision
Clause 19 K **Employment of skilled/ semi-skilled workers** The contractor shall, at all stages of work, deploy skilled/semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/ National Institute of construction Management and Research (NICMAR)/ National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/ certified by State/Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi-skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in- Charge. Failure on the part of contractor to obtain approval of Engineer-in Charge or failure	**Clause 19 K** **Deployment of skilled/semi-skilled workers** The Contractor shall, at all stages of work, deploy skilled and semi-skilled tradesmen who are **duly** qualified and **hold** certificates in **their respective** trade**s**, from **the** CPWD Training Institute, **or from awarding bodies recognized under the aegis of National Council for Vocational Education and Training (NCVET), Ministry of Skill Development and Entrepreneurship (MSDE)**, or any institute recognized/certified by the State or Central Government **for this purpose**. The number of such qualified tradesmen shall not be less than 20% of the total skilled/semi-skilled workers required in each trade at any stage of work**.** The Contractor shall submit, **for approval of the Engineer-in-Charge, the** number of man-days required for each trade, **the** proposed scheduling, and the list of qualified tradesmen along with requisite certificates issued by any of the above recognized institutes. **To make up any shortfall below the prescribed minimum limit of 20% of skilled/semi-skilled tradesman, the Contractor shall arrange skilling of**

L. S. Meena
AE (C-II) 18-8-2026

Ajay Kumar
18/8/2026
EE (Contract)

Correction – Nil Deletion – Nil Insertion – Nil Overwriting – Nil AE(P)(E)

to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate specified in schedule 'F' per such tradesman per day. Decision of Engineer in Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding. Provided always, that the provisions of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crores. For work costing more than Rs. 10 Crores, and upto Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 20% of the unskilled workers engaged in the project in co-ordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. For work costing more than Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 30% of the unskilled worker engaged in the project in coordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. The cost of such training as stated above shall be born by the Government. The necessary space and workers shall be provided by the contractor and no claim what so ever shall be entertained.	**workers at site under the Recognition of Prior Learning (RPL) program, conducted by awarding bodies recognized under NCVET or any institute recognized/certified by the State or Central Government for this purpose. The cost of such recognition/training, including the infrastructure required at site, shall be borne by the Contractor. The tradesmen undergoing training shall be paid their wages by the contractor for period during the training, and no reimbursement in this respect shall be made by the Government.** This provision shall not be applicable for works with **an** estimated cost put to tender **of** less than ₹5 Crore **in case of construction works and less than ₹50 Lakh in case of maintenance works**. **In the event, the contractor fails to provide the mandatory training to the tradesmen, a penalty of ₹1,000 per day per tradesman falling short of the required 20% target shall be imposed on the Contractor. Decision of Engineer in Charge shall be final and binding in this regard.**

This issues with the approval of DG CPWD.

18.08.26

(चन्द्र पाल)
अधीक्षण अभियंता (सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2026/ Maintenance e-file 9196031 (DFA/ 9388060)

के.लो.नि.वि. तथा लो.नि.वि. दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु (के.लो.नि.वि.वेबसाईट के माध्यम से)।

18/8/2026
EE (Contract)

18-08-2026
L. S. Meena
AE (C-II)

Correction – Nil Deletion – Nil Insertion – Nil Overwriting – Nil AE(P)(E)

PART – B
(Electrical Work)

FORM –I

Consent Letter from Eligible Associate Agency of Specialized Work(s)

Name of work: **Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work)Electrical Work).**

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

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

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

4. Also, I / We will employ full time technically qualified Engineer / supervisor for the specialized work(s) component of the work as required for the work and list of same shall be made available to Engineer-in-Charge. I / We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Main Agency/Contractor

Signature with date of Associate Specialized Agency

Address:

Address:

1. Witness with address
   (From Main Contractor side)

2. Witness with address
   (From Associated Agency side)

FORM –II

Memorandum of Understanding [MoU] for Associated Specialized Agency

1] M/s [Name of the firm/agency with full address]
Enlistment Status
Valid Upto:
[Henceforth called the Main Contractor]
and
2] M/S [Name of the firm/agency with full address]
Enlistment Status
Valid Upto:
[Henceforth, called Associated Specialized Agency]

For the execution of Specialized Component of Work(s):…… +- legality as per Indian Contract Act [amended upto date] and the department [CPWD] can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MoU permits. In case of any dispute, either of us will go for mediation by the EE (C), CPWD, New Delhi. Any of us may appeal against the mediation to the Superintending Engineer, DC-V, CPWD, New Delhi. His decision shall be final and binding on both of us.

We have agreed as under:
1) The Associated Specialized Agency will execute all above specialized work(s) in the wholesome manner as per terms and conditions of the agreement and as per the direction of the Engineer-in-charge.
2) That the Associated Specialized Agency has gone through the contract and has understood the scope of work required for the purpose of executing the specialized work(s).
3) All the machinery and equipments, tools and plants, special T&P required for execution of the specialized work(s), as per agreement, shall be the responsibility of the Associated Specialized Agency.
4) The site staff required for the specialized work(s) shall be arranged by the Associated Specialized Agency as per terms and conditions of the agreement.
5) Site order book maintained for the said work shall be signed by the authorized representative of Main Contractor as well as associated specialized Agency.
6) All the correspondence regarding execution of the specialized work(s) shall be done by the Department with the Associated Specialized Agency with a copy to the Main Contractor. In case of non-compliance of the provisions of agreement, the Main Contractor, as well as the Associated Agency shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the Main Contractor.

Signature of Main Contractor	Signature of Associated Specialized Agency
Date:	Date:
Place:	Place:

Willingness Certificate

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

"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 contracts in future forever."

"I have also read the complete tender conditions and I am aware that PART-A of this tender document is applicable to me also"

Date :

Signature of Associated Specialized Agency

GENERAL AND ADDITIONAL CONDITIONS FOR ELECTRICAL WORKS

ELIGIBILITY CRITERIA FOR ASSOCIATION OF SPECIALIZED FIRMS FOR E & M WORKS

1. The bidder must associate with himself, agencies of the appropriate eligibility to bid for each of specialized nature of items/work listed below individually. Such works shall be got executed only through associated agencies specialized in these fields. The bidder whose bid is accepted shall indicate the name(s) of his associated specialized agencies those fulfilling the eligibility criteria laid down below, of such items/work for the approval of the Engineer-in-charge of that component, whose decision shall be final and binding. If the bidder, himself fulfils the eligibility criteria laid down below for associated specialized agencies, then the bidder shall not require to associate with himself the associated specialized agency.

S.No.	Specialized work(s)/ item of work(s)	Eligibility Criteria of Associated Agencies
1.	**SITC of Fire Fighting System** **Estimate Cost: Rs. 84,81,750.00**	The contractor shall have to associate with agency fulfilling the following eligibility criteria (if he himself does not full fill the eligibility criteria) having successfully completed during last seven years ending up to previous day of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent duly attested. **Three similar completed works each of value not less than Rs. 33,92,700.00 which is 40% of estimate cost** **OR** **Two similar completed works each of value not less than Rs. 50,89,050.00 which is 60% of estimate cost** **OR** **One similar completed work of value not less than Rs. 67,85,400.00 Lakhs which is 80% of estimate cost** **Similar work shall mean "SITC of Fire Fighting System"**
2.	**SITC of Fire Alarm System** **Estimate Cost: Rs. 51,01,628.00**	The contractor shall have to associate with agency fulfilling the following eligibility criteria (if he himself does not full fill the eligibility criteria) having successfully completed during last seven years ending up to previous day of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent duly attested. **Three similar completed works each of value not less than Rs. 20,40,651.00 which is 40% of estimate cost** **OR** **Two similar completed works each of value not less than Rs. 30,60,977.00 which is 60% of estimate cost** **OR** **One similar completed work of value not less than Rs. 40,81,302.00 Lakhs which is 80% of estimate cost** **Similar work shall mean "SITC of Fire Alarm System"**

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 ending last day of month previous to the one in which tender are invited.

2. Valid electrical contractor licence for E & M Services.

3. The decision of the Department in approval of associate agency shall be final and binding on the contractor.

   The main contractor shall submit the following documents for association of eligible E&M agencies within 15 days of the award of the work.

4. The main contractor shall submit the willingness certificate for each sub-work, in enclosed proforma, from eligible E&M contractors to get associated with him for execution of each E&M components of work in wholesome manner and as per the conditions set out in the MOU to be entered into between the main contractor and the associated eligible E&M contractors

5. In support of the eligibility conditions of the proposed E&M contractors to be associated, copies of their registration documents, Electrical Contractor's License, Work experience certificates and otherdocuments as required in the eligibility conditions duly attested by the applicants (Main Contractor and associate contractors) shall be submitted to the EE(E) for deciding the eligibility. Every E&M contractor shall certify that they are not debarred as on the day of submission of the application.

6. The main contractor shall submit MOU in enclosed proforma (for each sub-work) signed with eligible registered contractors of CPWD/specialized E&M contractors. The MOU in the enclosed form shall be signed by both the parties i.e. main contractor as 1st party and associated E&M contractor as 2nd party.

7. In the event of the associate E&M contractor not performing satisfactorily or failure of associate E&M contractor to complete the work, the main contractor on the written direction of the department, shall remove the Associate contractor deployed on the work and shall submit name of new associate contractor who fulfill the conditions mentioned in NIT to execute the leftover work without any loss of time or variation in cost to the department in this regard. Such associates shall meet the entire guarantee for the equipment"s already supplied for which payment has been releasedby the Department in part. If any equipment supplied for the work, during the currency of the earlier Associate contractor and paid partly by the Department becomes redundant /not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be liable for replacement of the equipment(s) at no cost to Department. No change of E&M Contractor shall be allowed without prior approval of the Engineer-in-charge of respective component.

8. The main contractor shall be responsible and liable for proper and complete execution of all the E&M works and ensure coordination and completion of both civil and E&M works.

9. The associate contractor shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.

SPECIAL CONDITIONS OF CONTRACT

Name of Work: Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work).

1. The work shall be executed in a phased and planned manner without disrupting the normal functioning of the office. The contractor shall coordinate all activities with the Engineer-in-Charge and the building administration and shall ensure minimum inconvenience to office occupants. No work affecting occupied areas, essential services, access routes or building operations shall be undertaken without prior approval of the Engineer-in-Charge.

2. Before commencement, the contractor shall submit a detailed activity-wise work programme indicating the sequence of dismantling, installation, testing and commissioning of each floor/zone/system. The programme shall identify areas affected, proposed shutdowns, temporary arrangements and restoration timelines. Work in each zone shall be completed, tested and made operational before proceeding to the next zone, wherever practicable and as directed by the Engineer-in-Charge.

3. The stipulated completion period for the entire work shall be six (06) months. The contractor shall plan and execute the work in occupied areas, to the extent practicable, after office hours and on Saturdays, Sundays and holidays, wherever necessary, with prior approval of the Client Department and the Engineer-in-Charge, so as to minimize disruption to the normal functioning of the office. The contractor shall make adequate arrangements for manpower, supervision, tools and materials to complete the work within the stipulated period. The rates quoted shall be deemed to include all costs associated with the above working conditions and the stipulated completion period, and no extra payment or compensation shall be admissible on this account. All necessary safety precautions shall be taken, and no part of the existing fire-fighting or fire-alarm system shall be rendered inoperative without prior approval and implementation of adequate temporary fire-safety measures.

4. The contractor shall ensure that adequate fire protection remains available throughout execution. No existing fire hydrant, sprinkler, detection, alarm, pump, control panel or other fire-safety facility shall be disconnected, isolated, dismantled or rendered inoperative without prior written approval of the Engineer-in-Charge and the designated fire-safety authority, wherever applicable.

   Where isolation of any system or zone is unavoidable, the contractor shall arrange approved temporary fire-safety measures, including fire extinguishers and other safeguards as directed by the competent authority. The affected system shall be restored at the earliest and within the approved shutdown period. No additional payment shall be admissible for such arrangements unless specifically provided for in the contract.

5. All planned shutdowns of fire pumps, hydrant/sprinkler networks, fire alarm panels, detection loops, electrical supplies or associated equipment shall be undertaken only after obtaining written permission from the Engineer-in-Charge and the designated building/fire-safety authority, as applicable. The contractor shall submit a shutdown request sufficiently in advance, indicating the reason, affected area, duration, risk-control measures, alternative arrangements and restoration plan. Unauthorized shutdowns or isolation of any fire-safety system shall be treated as a serious contractual breach.

6. Before dismantling or commencing installation, the contractor shall inspect the existing installation and verify the actual site conditions, pipe routes, wiring/cable routes, equipment locations, interfaces, power supplies, panel configuration and accessibility. Existing layout drawing (if any) and inventories, where available, shall be verified against site conditions. Any discrepancy, defect, incompatibility or additional requirement affecting the design, quantities, system performance or safety shall be brought to the notice of the Engineer-in-Charge before proceeding with the affected work. No extra item, deviation or change shall be executed without prior written approval in accordance with the contract.

7. As the existing drawings of the fire-fighting and fire detection and alarm systems are not available on record, the contractor shall carry out a detailed site survey and verify the existing site conditions, system configuration, equipment locations, pipe and cable routes, and interfaces with other services before commencement of the work. Based on the site survey and approved scope of work, the contractor shall prepare and submit detailed working drawings, including layouts, schematics and equipment details, for approval of the Engineer-in-Charge before execution. Upon completion of the work, the contractor shall prepare and submit updated as-built drawings accurately depicting the actual installation, including all modifications and retained existing components, in both hard and soft copies, in the formats approved by the Engineer-in-Charge. The cost of the survey, preparation, submission and revision of drawings, and as-built documentation shall be deemed included in the quoted rates, and no extra payment shall be admissible on this account.

8. All replacement equipment and components shall be compatible with the retained equipment and the approved system design. For addressable fire alarm systems, compatibility shall include the control panel, detectors, manual call points, loop cards, communication protocols, software, configuration tools and associated accessories. Where an existing panel or equipment is proposed to be retained, the contractor shall verify its compatibility and functional condition before installation. Any OEM authorization, proprietary interface, software access or technical support required for the specified system shall be arranged by the contractor. No make or model shall be accepted merely on the basis of physical fitment; compliance with the approved specifications and demonstrated system functionality shall be mandatory.

9. The contractor shall protect all existing electrical installations, communication cables, false ceilings, civil finishes, furniture, office equipment and other services during execution. Cutting, drilling, chasing or making openings in structural members or service shafts shall not be undertaken without specific approval. Any damage caused by the contractor or its personnel shall be made good at the contractor's cost to the satisfaction of the Engineer-in-Charge. All penetrations through fire-rated walls, floors and shafts shall be sealed using approved fire-stopping systems having the required fire-resistance rating.

10. Noisy, disruptive or high-risk activities, including cutting, drilling, dismantling, pressure testing and electrical isolation, shall be carried out during approved working hours/preferably after officer hours. Activities likely to disturb office operations shall, wherever directed, be scheduled after office hours, on weekends or holidays. The contractor shall provide adequate supervision and shall coordinate daily with the designated departmental representative. Such scheduling and coordination shall not entitle the contractor to extra payment or extension of time except where admissible under the contract.

11. The contractor shall comply with applicable occupational safety, electrical safety, fire-safety and statutory requirements. Work areas shall be barricaded and provided with warning signs,

safe access, suitable lighting and necessary personal protective equipment. Escape routes, staircases, fire exits, access to fire-fighting equipment and emergency vehicle access shall remain unobstructed at all times.

Combustible waste, dismantled cables, packaging and debris shall be removed regularly. Storage of materials and cylinders, where applicable, shall be in designated safe locations.

12. **Dismantling of the existing fire fighting and fire alarm system is within the scope of the agency and nothing extra shall be paid on this account.** Dismantling shall be carried out carefully to avoid damage to equipment and services proposed to be retained. Reusable items, scrap, defective equipment and materials to be returned to the Department shall be segregated, inventoried and handed over as directed by the Engineer-in-Charge against proper acknowledgement. No dismantled material belonging to the Department shall be removed from the premises or disposed of without written authorization.

13. The contractor shall submit, before installation, technical data sheets, compliance statements, test certificates, approved makes, equipment schedules, shop drawings and other documents required under the tender. Materials may be inspected before dispatch at the discretion of the engineer in charge. The Engineer-in-Charge shall have the right to inspect the materials and workmanship at any stage. Concealed piping, joints, cable routes, supports, fire-stopping and other concealed works shall be offered for inspection before covering. Work covered without the required inspection may be required to be exposed and reinstated at the contractor's cost, in accordance with the contract.

14. The fire-fighting installation shall be tested in accordance with the approved specifications, applicable codes and the requirements of the competent authority. Testing shall include, as applicable, pressure and leakage testing of piping, flushing, verification of valves and flow direction, pump operation, automatic starting and stopping sequences, pressure settings, hydrant/hose-reel performance, sprinkler operation and associated alarms and interlocks. Testing shall be carried out in the presence of the Engineer-in-Charge or authorized representative, with calibrated instruments and duly recorded results. Any leakage, malfunction, inadequate performance or non-compliance shall be rectified by the contractor at no additional cost, and the relevant tests shall be repeated.

15. The complete fire detection and alarm system shall be tested for correct operation and integration. Testing shall include, as applicable, detector activation, manual call point operation, sounders/hooter audibility, visual indicators, fault monitoring, open/short-circuit supervision, loop integrity, battery backup, mains failure response, zone/loop identification, event logging and cause-and-effect sequences. All interfaces with lifts, AHUs, ventilation systems, access-control systems, fire pumps, smoke-control systems and other building services, where included in the approved design, shall be tested jointly with the concerned agencies. The contractor shall demonstrate that alarms, indications and programmed control actions occur correctly. Testing shall be completed without compromising occupant safety or disrupting essential building operations.

16. The contractor shall conduct integrated testing of the fire-fighting and fire detection/alarm systems after completion of installation. All equipment, interfaces, interlocks, control logic and emergency operating sequences shall be demonstrated to the satisfaction of the Engineer-in-Charge and the competent fire-safety authority, wherever required.

17. As the work pertains to the renovation of existing fire fighting and fire alarm system. Agency has to check the existing installation and prepare the proper inventory of the defective items which are to be replaced. Therefore, the Agency has to ensure that the installed system must be compatible with the existing fire alarm system.

18. The system shall be considered complete only after satisfactory testing, rectification of defects, submission of test records, approved as-built drawings, operation and maintenance manuals, equipment warranties and training of designated departmental personnel. Mere installation or energization of equipment shall not constitute completion of the work.

19. **As-Built Drawings and Documentation**

    On completion, the contractor shall submit updated as-built drawings showing actual pipe routes, valve locations, hydrants, sprinkler arrangements, pump-room layout, cable routes, detector locations, loop/zone details, panel configuration and interface connections, as applicable. Soft copies shall be submitted in the formats specified by the Engineer-in-Charge, along with hard copies wherever required.

    The contractor shall also submit the final equipment inventory, approved makes and models, serial numbers, test and commissioning reports, warranties, maintenance schedules and a list of critical spares.

20. The contractor shall rectify, at its own cost, any defect arising from defective materials, improper installation, faulty workmanship or incorrect configuration during the applicable defect liability period and warranty period stipulated in the tender. On receipt of a complaint relating to a fire-safety system, the contractor shall respond within the time specified in the contract and promptly attend to any defect affecting system availability or safety. Where a defect results in loss of protection to any area, the contractor shall immediately inform the Engineer-in-Charge and implement approved interim safety measures until the system is restored. The above obligations shall be without prejudice to other remedies available to the Department under the contract.

21. The contractor shall maintain adequate skilled manpower, qualified supervision, tools, testing instruments and materials to meet the approved programme. A daily record of manpower, work completed, areas affected, shutdowns, tests performed and constraints shall be maintained and produced when required. Any delay, shortage of material, incompatibility or hindrance likely to affect the completion schedule or safety of the building shall be reported immediately to the Engineer-in-Charge along with proposed corrective measures. The contractor shall attend coordination meetings as directed.

22. The complete installation shall conform to the relevant IS standards, codes, approved drawings, CPWD specifications and statutory requirements applicable to the work, including the relevant provisions of the NBCS 2026/UBBL, applicable BIS standards, fire-service requirements and conditions imposed by the competent authority.

    The contractor shall obtain the fire NOC from the local fire inspector. Any mandatory approval or inspection by the competent authority shall be completed before final handover, wherever applicable.

GENERAL TERMS AND CONDITIONS

General

1.1 The copy of CPWD General Specifications are readily available in CPWD website www.cpwd.gov.in under the link publication.

1.2 **Location:**

Work shall be carried out at **NSG Head Qtrs. Palam, New Delhi.** The contractor is advised to visit the site of work to have an idea of the execution of the work; failure to do so shall not absolve their responsibility to do the work as specified in agreement.

1.3 The work shall be executed as per CPWD General Specifications for Electrical works part-I (internal) 2023, Part-II (external)1995 and Part V Wet Riser & Sprinkler Systems – 2020, Part VI Fire detection and alarm system 2018 and as amended up to date, relevant I.E. Rules, industry standards, BIS/IES and as per directions of Engineer-in-charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these Specific conditions, as the same are to be read along with schedule of works for the work.

1.4 The tenderer should in his own interest visit the site and get familiarize with the site conditions before tendering.

1.5 No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

2.0 **Commercial Conditions**

2.1 Type of contract

The work to be awarded by this tender shall be treated as indivisible works contract.

3.0 Terms of payment

3.1 On account payments for part work (after stipulated and statutory deductions) as assessed by the Engineer–in-charge for the applicable items in the Contract shall be payable at part rates not exceeding the percentage indicated against the stages of work.

S.N	Stage of work	Percentage of Rate on Tendered Amount
a	Supply of material at site in good condition along with manufacture's test reports. (except exclusive supply item)	70%
b	On completion of installation in all respect.	20%
c.	Testing, Commissioning & handing over to the department.	10%

For other items, the part rates will be decided by the Engineer-In-Charge of the work and shall be binding on the contractor.

3.2 **Security Deposit**

Security Deposit shall be deducted from each running bill and the final bill to the extent of 2.5% of the gross amount payable subject to a maximum amount of 2.5% of the tendered value. The security deposit shall be released on the expiry of guarantee period of 12 Months stipulated in the contract. Bank guarantee will not be accepted as security deposit.

3.3 **Performance Guarantee**

The successful tenderer shall submit an irrevocable performance guarantee of 5% of the tendered amount and additional performance gurantee as mentioned in the schedule Ato F of the NIT, in addition to the other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement within 15 days of issued of letter of acceptance of tender. This guarantee shall be in the form of Demand draft / pay order or irrevocable bank guarantee bond of any scheduled bank or the State Bank of India in the specified format or in the form of Government security, fixed deposit receipt pledged in favour of Executive Engineer or as specified in the letter of acceptance of tender. The performance guarantee shall be initially valid up stipulated date of completion plus 60 days beyond. This bank guarantee shall be kept valid till the recording of completion certificate for the work by the competent authority.

3.4 Income Tax, labour cess & other statutory deductions etc shall be made at source as per the prevalent laws. The deductions of Security Deposit, Income-Tax, Works Contract Tax etc. shall be done after calculation of the above due payments as per clauses 3.1 to 3.3 and net payment shall be reduced accordingly.

4.0 **Rates**

4.1 The rates quoted by the tenderer, shall be firm and inclusive of all taxes including GST and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary construction of storage, risks, overhead charges, general liabilities/obligations and clearance from Local Body. However, the fee for the Local Body inspections shall be borne by the department.

4.2 The department will not issue Octroi exemption certificate.

5.0 **Completeness of Tender**

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of wall fan and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

6.0 **Storage and Custody of Materials**

For storage of sundry materials and erection equipments or else the agency has to make his own arrangements. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

7.0 **Care of the Building**

Care shall be taken by the contractor while handling and installing the various equipments and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.

8.0 **Completion Period**

The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc arrangement of materials &equipments, delivery at site including transportation, installation, testing, commissioning and handing over the entire system to the satisfaction of the Engineer-in-charge.

9.0 **Guarantee**

9.1 All equipments shall be guaranteed for a period of 12 months (if not mentioned otherwise) from the date of taking over the installation by the department, against unsatisfactory performance and /or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & building on the contractor.

10.0 **Power Supply**

(A) Maintenance/Revenue Work/Construction Work (i/c Repair/ Renovation/ Up-gradation/ Retrofitting work):-

(i) Unless otherwise specified, 3 phase, 415 volts, 50 Hz AC power Supply (5 KW load) shall be provided by the department to the contractor at one point for execution of work at site. Termination switchgear and extension cable, however, shall be arranged/provided by the contractor. Further extension, if required, shall be carried out by the contractor himself. Separate electricity meter shall be installed by the agency and the electricity consumed shall be paid to the department at the rate of the local electricity authority.

(ii) (a) For this purpose, the power supply shall be given at the main incomer unit of the electrical panel to be provided by the contractor. The termination of this feeder in the main incomer unit shall be the responsibility of the contractor and nothing extra shall be paid on this account.

(b) Unless otherwise specified in the contract, further power distribution to the various equipment shall be done by the contractor.

(c) Where the power supply has to be arranged by the Department at more than one point as per the terms of the contract, the termination of all such power feeders in the incomer of respective control panels to be provided by the contactor shall be the responsibility of the contractor and nothing extra shall be paid on this account.

(d) The contractor shall use the power supply only for the bonafide use of the work. No work shall be done at site with the supplied power which is not required for execution of work or which pertains to work to be carried out for some other agreement/site or labour camp/office setup etc. The power supply shall be disconnected in case of such default and the contractor shall then have to arrange the required power supply at his cost. Further, if such incidence of use of electricity for other work or other agreement or labour/office setup or In case, any complaint regarding theft/misuse of electricity is found electricity charges @0.5% of Tendered amount or Rs10,000/- per occasion whichever is higher shall be recovered from contractors bill. A written complaint of client department along with its vetting/clarification by officer of CPWD of minimum rank of AE shall constitute a definite and sufficient proof for the alleged theft/misuse and recovery shall be made accordingly which should be non-negotiable & non-refundable and no claim in this regard, whatsoever, shall be entertained.

11.0 **Water Supply**

Arrangement of Water supply for testing & for successful installation & completion of the system shall be in the scope of successful firm without any extra cost.

12.0 **Preferred Makes of Various Equipments**

The List of preferred makes of various equipments/components/accessories have been indicated in “NIT”. The tenderer shall work out the cost of the offer on basis of acceptable makes along with other terms & conditions of contract. Alternate makes are not acceptable. The items which are covered or not covered in the approved list of make in the contract, contractor shall submit at least three makes for approval by Engineer-in-charge. Only makes approved in writing by Engineer-in-Charge shall be used at site. Any material brought at site without prior approval of Engineer-in-charge may be rejected, even if the make is available in NIT and contractor shall be responsible for any such rejection of material.

i. Contractor shall get approval of Makes & Models of material before their use at site. The technical specifications / catalogue shall also be submitted along with submission for approval. In case unapproved material is found to be used /installed at site or kept at site store for installation, department shall not only confiscate such material but also be at liberty to recover cost for removal of material from site from contractors bill.

ii. **For each item to be used at site, contractor shall submit model number for each item of minimum three different make for approval by Engineer-in-charge**. Only approved make & model/material shall be used at site. Any material found at site which has not been approved can be rejected and shall not be paid. Contractor will be solely responsible for non-payment due to use of non-approved material. The submission for material approval shall be minimum two weeks before its use at site.

13.0 The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipments regarding installation, adjustments operation and maintenance including preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue etc all in triplicate.

14.0 **Extent of work**

14.1 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning, as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract as this is a turnkey job. The quoted rates shall be deemed to be inclusive of all kind of leads, lifts, clearing of site/jungle and nothing extra shall be paid, whatsoever on such account

14.2 In addition to supply, installation, testing and commissioning of complete installation,, following works shall be deemed to be included within the scope of work to be executed by the tenderer as this is a turnkey job.

a) Minor building works necessary for installation of equipments, foundation, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc as required.
b) All supports for rising mains, cables and MS channels for erection of panels &etc as are necessary.
d) Getting Local Body inspection done & obtaining approval for energizing the installation if required. However, necessary fees for inspection shall be borne by the Department.
e) Arrangement of electric supply (Single / Three phase) and water supply for execution and successful commissioning of the system.
f) Small wiring, inter-connection etc inclusive of all materials and accessories, necessary to comply with the regulations as well as proper and trouble free operation of the equipment.
g) Closing of the cable entry points in sub-station against seepage of water, rodents etc.
h) Tools and tackles required for handling and installation.
i) Necessary testing equipments for commissioning.
j) Watch and Ward of materials and/or installation and equipments till their handling over to the department.
k) All minor building works, such as equipments foundation if required cutting and making good holes, grouting of channels belts as required. Cutting and making good damages etc.
l) Provision of supports/clamps for equipments, cables etc wherever required.

15.0 **Works to be done by the Department**

Unless otherwise mentioned in the tender specifications the following works shall carried out by the department.

i) To make the site available for the work. The contractor should select such equipment for installation as can be properly installed in the spaces shown in specification drawings. While no guarantee can be given minor modification required by the contractor if mentioned in the tender or intimated immediately after the receipt of tender shall be carried out if structurally possible.

16.0 Exclusion and work to be done by other agencies:

The following shall be excluded from the scope of the work:

a) Major dismantling of any existing building work.

17.0 **Inspection and Testing**

17.1 All the tests certificate of the equipments are required to submit along with delivery of material.

17.2 Copies of all documents of routine and type test certificates of the equipment,/cable carried out at the manufacturers premises shall be furnished to the Engineer-in-charge and consignee.

17.3 After completion of the work in all respects the contractor shall offer the installation for testing and operation.

18.0 **Validity**

Tenders shall be valid for acceptance for a period of 30 days from the date of opening.

19.0 Compliance with Regulations and Indian Standards

19.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:

i) Factories Act
ii) Indian Electricity Rules
iii) BIS/NBCS 2026 & other standards as applicable
iv) Workmen's compensation Act
v) Statutory norms prescribed by local bodies, Power supply co., etc.

19.2 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

19.3 Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs. 500/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

20.0 **Indemnity**

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including their party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

21.0 **Erection Tools**

No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.

22.0 **Cooperation with other agencies**

The successful tenderer shall co-ordinate with other contractors and agencies engaged in the construction of buildings, if any, and exchange freely all technical information so as to make the execution of this work/contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the tenderer himself.

23.0 The work will be carried out with least disturbance during shifting & shut down taken in consultation with the client department.

24.0 Verification of correctness of equipment at Destination
The contractor shall have to produce all the relevant records to certify that the genuine equipments from the manufacturers has been supplied and erected.

25.0 **Painting**

This shall include cost of painting of the entire installation.

26.0 **Maintenance**

26.1 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the defect liability period of 1 year from the handing over of the installation.

27.0 **Interpreting specifications**

In the case of discrepancy between the schedule of Items, the specification and/ or the drawings, the following order of preference shall be observed:-

(a) Schedule of Work.
(b) Specific Conditions.
(c) General Terms and Condition.
(d) Drawings.
(e) CPWD Specifications.
(f) NBC 2016/NBCS – 2026(stricter of the two)
(g) Indian Standard Specifications of B.I.S.

However, the order of preference provided is in general and in case of contradiction or otherwise, higher of specifications available in above documents/acts/codes shall be followed. Contractor is advised to quote the rates accordingly keeping in mind that highest of specification available shall be adopted.

28.0 General Terms & Condition, Special conditions & additional condition mentioned in part-B of NIT (i.e. Civil Component of work) shall also be applicable for part-C of NIT as well (Not applicable for Electrical exclusive contracts).

29.0 Excavation shall include hard rock excavation as well and nothing extra shall be paid on this account.

30.0 In case cable is laid at depth less than as mentioned in NIT/CPWD specifications recovery at Rs. 15 per 10 cm depth /meter of cable length shall be recovered from bill. This shall also be applicable for GI pipe work, DWC pipe work, Earthling work as well.

31.0 Challan & Test Certificate for all items amounting more than Rs. 50,000/- shall be submitted along with running bill in case both Challan & Test certificated are not submitted R.A. bill shall not be considered & contractor shall be responsible for any delay in payment.

32.0 Contractor shall submit cable route plan for approval before start of cable work. In case drawings for area /layout are not available with department these drawings shall be prepared by contractor at his on cost. For the purpose of assessment of work contractor is advised to visit the site to get familiar with site conditions before quoting his rates

33.0 All cabling & street light work shall be carried out as per CPWD specifications (External) 1995. Contractor shall obtain written clearance from JE/AE in charge of work before refilling the excavated trenches, otherwise it shall be presumed that contractor has not excavated required depth and item/component of item for excavation and refilling for trenches shall not be paid and contractor shall be responsible for such non payment.

34.0 Contractor shall be fully responsible for shifting of services encountered at site like electrical lines/power cables/ telephone, TV, data cables/electric poles/light poles/feeder pillar (whether energized or not)/dismantling and handing over such material to department. For shifting of such services including dismantling of such material required for smooth working at site, nothing extra shall be paid. Contractor is advised to visit site before quoting his rates.

35.0 Measurements shall be recorded for all measurements and levels of work done in the shape of electronic measurement book through CPWD ERP module as per CPWD OFFICE MEMORANDEM NO. DG/CON-Maintenance- 2020/338, dated 13/04/2023) instructions and details."

36.0 It is clarified that being occupied building site will be made available in phases/parts only. The work may also be required to be executed during odd hours/night shift/holidays for which nothing extra shall be paid.

37.0 Before supplying the material agency has to explore the exact requirement of the material at site and shall be procured accordingly and payment shall be made as per agreement conditions. Any excess material brought to the site by the contractor shall be taken back for which no payment shall be made on this account.

List of preferred make / manufacturers (Electrical Work)

Sl.No.	Item/Materials	Acceptable Makes
	Fire Fighting System	
1.	Terrace Fire Pump	Kirloskar/KSB/Grundfos/ Wilo Mather & Platt
2.	Electrical Motor	Bharat Bijlee/Siemens/Kirloskar/Crompton
3.	Anti Vibration Mounting	Kanwal Industrial Corporation/Dunlop/ Resisto flex
4.	Pressure Switch (ISI marked)	SystemSensor/Infoss/Danfoss/Switzer/Siemens
5.	Pressure Guage (ISI marked)	HGuru/Fiebig/Dwyer
6.	Single Headed Landing Value (ISI marked)	Minimax/NewAge/Safeguard/Lifeguard/Omex/ GETECH/ HD Fire Protect
7.	Male Female Fire Hose Coupling)	Minimax/NewAge/Safeguard/Lifeguard/Omex/ GETECH/ HD Fire Protect
8.	First Aid Hose reels Drum	Minimax/NewAge/Safeguard/Lifeguard/Omex/ GETECH
9.	Branch Pipe & Nozzle	Minimax/NewAge/Safeguard/Lifeguard/Omex/ GETECH/ HD Fire Protect
10.	Water Flow Switch (FM/UL listed)	System Sensor/ Victaualic/Tyco
11.	Rust preventive polymeric 4mm thick tape for pipes directly buried in ground pipe protection pypkoat (AW4) wrapping (ISI marked)	Pypcoat/ Marphalt/ Rustech /Safex
12.	Fire brigade inlet connection (ISI marked)	Minimax/NewAge/Safeguard/Lifeguard/Omex/ GETECH/ HD Fire Protect
13.	Thermoplastic pipe for first aid hose reel	Minimax/NewAge/Safeguard/Lifeguard/Omex/ GETECH
14.	Fire Sealent	Promat/ Birla/ 3M/ Hilti
15.	Overload relays	Schneider electric/L&T(LAURITZ KNUDSEN)/ Siemens/ C&S / ABB
16.	Power/ Aux. Contractor 3 /4 pole	Schneider electric/Legrand/Hager/L&T (LAURITZ KNUDSEN)/ ABB/ Seimens/ C&S/ BCH/HBL
17.	LED Type Indicating lamps/ Push Button	Schneider electric / L&T (LAURITZ KNUDSEN)/ Siemens/C&S/ABB
18.	LT jointing Kit/Termination	Raychem/ Denson/ cap seal/ Safekei/ 3M
19.	RRL hose pipe (ISI Marked)	Minimax/NewAge/Safeguard/Lifeguard/Omex/GETE CH/ HD Fire Protect
20.	Anti corrosive/Epoxy Paint	ICI/ Asian Paints/Berger/ Nerolac
21.	Air release Valve	RB/ Arco/SKS/Zoloto/sant/advance
22.	Analogue/digital Measuring Instruments (Voltmeter/Ammeter/ Energy meter/KW /PF/Multi-Function Meter)	AE/Rishab/L&T (LAURITZ KNUDSEN)/C&S
23.	Aluminium/Copper power Cable/ Control cable (Armored /Unarmored)	Finloex/RR Kabel/Havells/Polycab/KEI
24.	Cable gland and Lugs	Comet/Dowells /Hax brass (Copper Alloy India) /Jainson/ Action
25.	Electrical Pump Control Panel	Adlec/Ambit Control & Swich Gears/SPC Electrotech /RP Control/Milstone/Precision System Control
26.	Hose Cabinet/Fire Hose Box	SPC Electrotek/Getech/RP Control/Precision System Control/lifeguard/GEtech/Omex/safex

Sl.No.	Item/Materials	Acceptable Makes
27.	MS pipe/GI Pipe	Tata/Jindal(Hisar)/Sail
28.	Sluice Valve/NRV (ISI marked)	Audco/Sant/Leader/Advance/Kirloskar/GETECH
29.	Butterfly Valve (ISI marked)	Audco/Sant/Leader/Advance/Kirloskar/GETECH
30.	Check Valve (ISI marked)	Audco/Sant/Leader/Advance/Kirloskar/GETECH
31.	Foot Valve (Cast Iron/Gun Metal)	Audco/Sant/Leader/Advance/Kirloskar/GETECH
32.	Y-Type Strainer	Audco/Sant/Leader/Kirloskar/GETECH
33.	LED Signanges	Mr. Lite/Gloline/Lifeguard/Agni
34.	Response Indicator	Notifier / Edward / Honeywell/ASES
	Fire Alarm System	
1.	Addressable Manual call box	Notifier/Johnson control/Honeywell/Siemens/ Bosch/ EST (Edward)
2.	Addressable type fault isolator	Johnsoncontrol/Honeywell/Siemens/Bosch/EST (Edward)
3.	Strobe lights cum hooter	Notifier/Johnson control/Honeywell/Siemens/ Bosch/ EST (Edward)
4.	Addressable control modules for hooter	Notifier/Johnson control/Honeywell/Siemens/ Bosch/ EST (Edward)
5.	Addressable monitor module for flows witch	Notifier/Johnson control/Honeywell/ Siemens/ Bosch/EST (Edward)
6.	Addressable type fire alarm control panel	Notifier/Johnson control/Honeywell/ Siemens/ Bosch/ EST (Edward)
7.	Network repeater panel	Notifier/Johnson control/Honeywell/ Siemens /Bosch /EST (Edward)
8.	Addressable multi sensing fire detector (Combination of optical type smoke detector and ROR type heat detector)	Notifier/Johnson control/Honeywell/ Siemens/Bosch /EST (Edward)
9.	Cat-6 cable, Wire & Fiber optic cable	Amp/Avaya/Beldon/Legrand/Molex/Schneider
10.	Response Indicator	Apollo/System sensor/Electro quip/Honeywell
11.	Addressable/conventional PA System	Notifier/Johnson control/Honeywell/ Siemens /Bosch
12.	Fire suppression system	Notifier/Johnson control/Honeywell/ Siemens/Bosch/ Kalpex/Ceasefire
13.	Fire survival cable	RR Kable/Belden/Bonton/Grandlay
	I.E.I., MCBDB & MCB, cable & Wires	
1.	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO`s	Schneider Electric ACTI-9(N)/ Legrand(DX3)/ Hager/ LK(FORMERLY L&T)(Exora)/ ABB(S200M)/ Seimens (Betaguard)/ Havells
2.	DB / Loose wire Box	Schneider Electric /Legrand/ Hager/ LK (FORMERLY L&T)/ABB/Seimens/Havells
3.	Moulded Case Circuit Breaker(MCCB) Thermal release/ Microprocessor based (Ics=Icu=100%)	Schneider Electric NSX series/ Legrand(DPX3)/ LK(FORMERLYL&T)(D-Sine)/ ABB (TMax)/ Seimens (VLseries)/ Havells
4.	ACBs with Display	Schneider Electric(MasterpactNW6.0A)/Legrand (DMX3MP4)/LK(FORMERLY L&T)(U-Power-OMEGA)/ABB(Emax)PR122/Seimens (3WL-ETU45B)/ Havells
5.	Change Over Switch	LK (FORMERLY L&T)/ Havells/ HPL/ Hager/ Indoasian.

Sl.No.	Item/Materials	Acceptable Makes
6.	Automatic Transfer switch(ATS)	Asco/Russel/Socomac/ Hager/ ABB/ LK (FORMERLY L&T)/Havells
7.	MS Conduit (ISI marked) with heavy duty MS Conduit pipe accessories.	BEC/ NIC/ AKG/ RMCON/JPC/ (Note:- the make of accessories shall be same that of conduit pipe & will comply to IS/14768 part2 2003)/Norpack
8.	PVC Conduit (ISI marked) with heavy duty PVC Conduit pipe accessories.	AKG/ Norpack/ BEC/ Polypack/ Precision
9.	Modular Switch, Socket/Telephone socket/ cable TV Socket/ Data outlet socket/ Fan Regulator/ G I Boxes etc. (Wiring Accessories).	Legrand(Arteor)/ Schneider Electric(Zencilo)/ Hager(Insyta)/MK(blenze)/Havells(Murano)/ABB (Millenium)
10.	Selector Switch & Toggle switch	Salzer(LK (FORMERLY L&T))/Siemens/Kaycee/ Rishabh/ABB
11.	PVC Trunking	MK/Schneider Electric / Legrand
12.	GI pipe	Tata / Jindal(Hissar)/Jindal(Star)/Sail
13.	Paints	ICI/ Asian/Berger
14.	Terminal Block & Connectors	Elmex/ Wago/ Hensel/ Connectwell
15.	Phenolic laminated sheet/ Bakelite sheet	Hylem/ Formica(P-I grade)/ Mylam/ Greenlam.
16.	LT jointing kit / Termination	Reychem/Denson/ Cap Seal/Safekei/ 3M
17.	Auto Glow existing signage	Prolite/Auto lite/Glowmake / Glowline
18.	Power/ Aux. contactor 3/4 pole	Schneider Electric / Legrand/ Hager/ LK (FORMERLY L&T)/ ABB/ Seimens/ BCH/Havells.

NOTE:-

1. The contractor will submit three brand of material to obtain prior approval of above said make list from the Engineer-in-charge and Engineer-in-charge will approve one brand of material out of this.
2. Items which are not mentioned in above list but required at site, shall be of BIS approved and supplied with prior approval of CPWD with complete documentation.
3. Equivalent superior makes shall be considered only on non-availability of approved specified makes. In general no change in brand will be entertained, however, the executing agency / vendor having similar experience will be / can be considered in case of non-availability of any material with certification from manufacturer, from the above list with cost adjustment (if any). Subject to proof being offered by the Contractor for equivalence to his satisfaction.
4. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material. The Contractor shall make a detailed submittal with catalogues and highlighted proposed specifications, as well as full details of the works executed by the specialized agency, as specified.

Schedule of Quantities (Electrical Work)

Name of work: **Improvement & Upgradation of fire fighting / fire alarm system at HQ NSG Palam, New Delhi (Electrical Work).**

S. No.	Description of items	Qty.	Unit	Rate	Amount
	SH-1 (INTELLIGENT FIRE ALARM SYSTEM)				
1.	INTELLIGENT FIRE ALARM SYSTEM Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5 % V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories. The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications including dismantling of existing system.				
1.1	Ten Loop Panel	1	Nos.	476893	476893
2.	Supplying, installation, testing & commissioning of repeater panel with 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required including dismantling of existing system.	2	Nos.	113734	227468
3.	Supplying, installation, testing & commissioning of intelligent analog addressable photo thermal detector complete with mounting base complete as required including dismantling of existing system.	598	Nos.	3004	1796392
4.	Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required including dismantling of existing system.	23	Nos.	3682	84686

S. No.	Description of items	Qty.	Unit	Rate	Amount
5.	Supplying, installation, testing & commissioning of fault isolator complete with base as required including dismantling of existing system.	40	Nos.	3434	137360
6.	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required including dismantling of existing system.	37	Nos.	2866	106042
7.	Supplying, installation, testing & commissioning of addressable fire control module complete as required including dismantling of existing system.	30	Nos.	3156	94680
8.	Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required including dismantling of existing system.	4	Nos.	8183	32732
9.	Supplying, installation, testing & commissioning of addressable manual call point complete as required including dismantling of existing system.	24	Nos.	4063	97512
10.	Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required including dismantling of existing system.	4200	Mtrs	386	1621200
	SH-2 (PUBLIC ADDRESS SYSTEM)				
11.	Supplying, installation, testing & commissioning of 6 zone, voice alarm controller with USB, MP4 player (including 6 zone button paging station) with seamless integration facility with main fire alarm panel for voice evacuation complete as required including dismantling of existing system.	1	Nos.	132115	132115
12.	Supplying, installation, testing & commissioning of digital audio amplifier 75 Watt, 25V rms operating at 240 Volt AC Supply complete as required including dismantling of existing system.	1	Nos.	152368	152368
13.	Supplying, installation, testing & commissioning of Voice command keypad 6 zone, with microphone assembly complete as required including dismantling of existing system.	1	Nos.	85450	85450

S. No.	Description of items	Qty.	Unit	Rate	Amount
14.	Supplying, installation, testing & commissioning of 1.5/3/6W metal box ceiling/wall speakers complete as required including dismantling of existing system.	30	Nos.	1891	56730
	SH-3 (FIRE FIGHTING SYSTEM)				
15.	CONTROL PANELS Fabrication Supply , Installation, Testing and Commissioning of Electrical control pane4l of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories , mountings and thermal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specification with following incoming and outgoing, suitable for operation on 415v, 3 phase 50hz AC supply with enclosure protection class IP 42 as required including dismantling etc. complete as required including dismantling of existing system.				
	Incoming				
	630A, 50KA 4 pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-630 A) with selector switch & CTs etc.				
	LED type RYB phase indicating lamps, ON, OFF trip indicating lamps.				
	Set of Copper Bus Bar 800 Amps				
	Outgoings				
	(Note- All outgoing feeders for pumps should have digital Ammeter with selector switches and LED type ON, OFF, tro\ip indicating lamps)-				
	Main Fire Pumps				
	200 Amp, 50kA TPN MCCB, Ics=100%, with fully automatic star/delta starter suitable for 75 HP pump with overload protection current sensing type single phase preventer complete with all accessories and internal wiring required for automatic operation selector switch for local/remote, auto/manual / OFF operation-2 sets				
	Jocky Pump				

S. No.	Description of items	Qty.	Unit	Rate	Amount
	100 Amp, 50kA TPN MCCB, Ics=100%, with suitable HP fully automatic star/delta starter with overload protection current sensing type single phase preventer complete with all accessories and internal wiring required for automatic operation selector switch for local/remote, auto/manual/OFF operation-2 sets				
	Diesel Engine Pump				
	Control for diesel engine comprising				
	Automatic/Manual selector switch & 3 attempts starting device timers and relays as required, push buttons, start stop in manual mode				
	Indicating lamps for high/ low lub. Oil pressure, high water temp and engine on indication.				
	Battery charger suitable for 12v/24 DC with boost and trickle selector switch, 0-30V, DC volt meter and 0-20A DC Ammeter.				
	All standard relays and accessories for automatic operation of diesel engine.				
	System Controller				
15.1	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	1	Nos.	469546	469546
16.	PIPES & ACCESSORIES Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS1239/Class -II of IS: 3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required including dismantling of existing system.				
16.1	150mm dia	550	Mtr	5104	2807200
16.2	100mm dia	110	Mtr	4029.00	443190
17.	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 1239/Class -II of IS: 3589 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required including dismantling of existing system:				

S. No.	Description of items	Qty.	Unit	Rate	Amount
17.1	200 mm dia (wall thickness 6.3 mm)	12	Mtr	6620	79440
17.2	150mm dia	30	Mtr	4299	128970
17.3	100mm dia	120	Mtr	3077	369240
17.4	80mm dia	18	Mtr	2277	40986
17.5	25mm dia	30	Mtr	920	27600
18.	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required including dismantling of existing system :				
18.1	Single headed Stainless steel	48	Nos	6632	318336
19.	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to ISI 13095 of following sizes as required including dismantling of existing system :				
19.1	80mm dia	45	Nos	5406	243270
19.2	100mm dia	10	Nos	7271	72710
19.3	150mm dia	5	Nos	9737	48685
20.	Supplying, fixing, testing & commissioning of double flanged sluice valve of rating PN 1.6 with non rising spindle, bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required including dismantling of existing system :				
20.1	200mm dia	3	Nos	41386	124158
20.2	150mm dia	2	Nos	24088	48176
21.	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm2 complete as required including dismantling of existing system.	48	Nos	1424	68352
22.	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required including dismantling of existing system :				
22.1	80mm dia	1	Nos	8255	8255
22.2	100mm dia	9	Nos	11853	106677
22.3	150mm dia	3	Nos	18884	56652

S. No.	Description of items	Qty.	Unit	Rate	Amount
23.	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange including dismantling of existing system.				
23.1	200mm dia	2	Nos	23571	47142
24.	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required including dismantling of existing system :				
24.1	Stainless Steel (Grade 304)	96	Nos	4667	448032
25.	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required including dismantling of existing system.(a) 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type-2 as per IS: 12585.(b) 20 mm nominal internal dia gun metal globe valve & nozzle.(c) Drum and brackets for fixing the equipment's on wall.(d) Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.				
25.1	40 m	30	Nos	11086	332580
26.	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required including dismantling of existing system:				
26.1	Stainless Steel (Grade 304)	48	Nos	1756	84288
27.	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required including dismantling of existing system:				
27.1	4 way - 150 mm dia M.S. Pipe	2	Nos	14820	29640
27.2	2 way-100 mm dia M.S. Pipe	9	Nos	7262	65358
28.	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required including dismantling of existing system.	11	Nos	19402	213422

S. No.	Description of items	Qty.	Unit	Rate	Amount
29.	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 0C with required accessories including dismantling of existing system :				
29.1	Pendent Sprinkler	60	Nos	599	35940
30.	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required including dismantling of existing system.	6	Nos	1670	10020
31.	Providing and fixing in position industrial type pressure gauges with gun metal / brass valves complete etc. as required including dismantling of existing system.	48	Each	1491	71568
32.	Providing, fixing, testing & commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc. of following sizes as required including dismantling of existing system:				
32.1	100mm dia	1	Nos	47460	47460
33.	(a) Supplying, installation, testing and commissioning of Electric driven Main Fire Pump conforming to IS 12469: 2019 suitable for automatic operation and consisting of following, complete in all respects, as required including dismantling of existing system: (b) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal as required including dismantling of existing system.				

S. No.	Description of items	Qty.	Unit	Rate	Amount
	(c) Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-12615: 2018 including dismantling of existing system. (d) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required including dismantling of existing system. (e)Suitable cement concrete foundation duly plastered with anti-vibration pads including dismantling of existing system.				
33.1	2280 lpm at 70 m Head	2	Nos	388181	776362
34.	(a) Supplying, installation, testing and commissioning of diesel engine driven main fire pump conforming to IS 12469: 2019 suitable for automatic operation and consisting of following, complete in all respects, as required including dismantling of existing system: (Diesel Driven Pump) (b) Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal as required including dismantling of existing system. (c) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required including dismantling of existing system. (d) M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required including dismantling of existing system. (e) Suitable cement concrete foundation duly plastered and with anti-vibration pads including dismantling of existing system.				
34.1	2280 lpm at 70 m Head	1	Nos	642112	642112

S. No.	Description of items	Qty.	Unit	Rate	Amount
35.	(A) Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required including dismantling of existing system: (Jockey Pump) (B) Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS: 1520 including dismantling of existing system. (C) Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS: 325 including dismantling of existing system. (D) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required including dismantling of existing system. (E) Suitable cement concrete foundation duly plastered and with anti vibration pads including dismantling of existing system.				
35.1	180 lpm at 70 m Head	1	Nos	109254	109254
36.	Supplying and Replacement of Weather Proof Hose Cabinet suitable for external yard hydrant fabricated out of minimum thickness 16SWG MS sheet with glass door in front having looking arrangement, including provision for fixing 2 nos., 15 mtrs long hose reels, 1 nos. branch pipe & 1 no hydrant valve mounted on existing wall or existing raised brick platform & duly painted with PO Red extremely & white internally with synthetic enamel paint etc. complete in all respect as required including dismantling of existing system.				
36.1	900mm x 600mm x 500mm deep	11	Nos	9739	107129
37.	**Credit for old dismantled material as available at site on as is where is basis i/c dismantling charges.**				
37.1	15 HP Electric Driven Pump with motor (Jockey Pump) (Assorted)	1	Nos	-9000	-9000
37.2	60 HP Electric Driven Pump with motor (Main Pump) (Assorted)	2	Nos	-35000	-70000
37.3	60 HP Engine pump with DG Set (Assorted)	1	Nos	-30000	-30000
37.4	Hose reel drum with accessories (Assorted) (MS body)	30	Nos	-400	-12000
37.5	Landing Valve (Assorted) (CI Body)	4	Nos	-150	-600

S. No.	Description of items	Qty.	Unit	Rate	Amount
37.6	Air Release Valve & Air Vessel (Assorted) (CI Body)	11	Nos	-500	-5500
37.7	Sprinkler (Assorted) (CI Body)	60	Nos	-2	-120
37.8	Electric Fire Panel (Assorted) (CRCA Body)	1	Nos	-8000	-8000
37.9	Non-Return Valve (150mm) (Assorted) (CI Body)	3	Nos	-900	-2700
37.10	Non-Return Valve (80mm) (Assorted) (CI Body)	1	Nos	-450	-450
37.11	Butterfly Valve (100mm) (Assorted) (CI Body)	10	Nos	-125	-1250
37.12	MS Pipe (200mm dia) (Assorted)	12	Mtr	-190	-2280
37.13	MS Pipe (150mm dia) (Assorted)	580	Mtr	-150	-87000
37.14	MS Pipe (100mm dia) (Assorted)	230	Mtr	-95	-21850
37.15	MS Pipe (65mm dia) (Assorted)	30	Mtr	-60	-1800
37.16	MS Pipe (40mm dia) (Assorted)	60	Mtr	-36	-2160
37.17	MS Pipe (32mm dia) (Assorted)	80	Mtr	-30	-2400
37.18	MS Pipe (25mm dia) (Assorted)	30	Mtr	-24	-720
37.19	Fire Alarm system i..e Main Panel, Hooter, MCP, Sounder, Cable, conduit , speaker, PA system all accessories related to fire alarm system.(Assorted)	1	Lot	-75000	-75000
	Total				**13250548**
	Add Cost Index @ 1% on DSR Items No. 1 to 35 on Rs. 13476249/-				134762
	G. Total				**13385310**