

INDEX**Name of Work: Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi.**

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PART-A

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**INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING
(Applicable for inviting open bids) (Single Bid System)**

The **Executive Engineer (E), CPWD, Allahabad** on behalf of President of India invites online percentage rate e-tenders from approved and eligible contractors of CPWD in Building & Road category Class II and above, and contractor of Class III, IV & V of NR Region for the following work(s).

S. No.	NIT No.	Name of work and location	Estimated cost put to bid	Earnest Money	Period of Completion	Last date & time of submission of bid and other Document as specified in the press notice	Time & date of opening of bid
1	57/ACED/2026-27/Recall-I	Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi.	Rs. 9,12,801.00	Rs. 18,256/-	02 Months	Upto 03:00 PM on 27-10-2026	At 03:30 PM on 27-10-2026

*** To be filled in by the Executive Engineer**

- The composite contractor shall have to associate other agency for execution of specialized component work, which fulfills the eligibility criteria mentioned below. However, the composite category contractor shall also be eligible to carry out the work himself without associating any specialized agency provided, he has valid electrical license and fulfills all eligibility criteria respectively for the each specialized works as mentioned below: -

Eligibility Criteria for Associate Contractor

Fire Fighting System

The associate specialized agency should have successfully completed works, as mentioned under during last 7 years ending previous day of last date of submission of tender.

- Three similar works each costing not less than 40% of estimated cost of relevant subhead put to tender.
- OR**
- Two similar works each costing not less than 60% of estimated cost of relevant subhead put to tender.
- OR**
- One similar work costing not less than 80% of estimated cost of relevant subhead put to tender.

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

Similar work shall mean works of “SITC of Fire Fighting System”.

However, the main contractor shall also be eligible to carrying out this work himself without associating any agency provided he fulfills the prescribed eligibility criteria respectively for this work.

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> free of cost.
4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as **Insurance Surety Bonds, Account Payee Demand draft of Bankers Cheque or Fixed Deposit Receipt or/and Bank Guarantee (for balance amount as prescribed)** from any of **the Commercial Bank** towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD and other documents as specified.
5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
6. The intending bidder must have valid class-III digital signature to submit the bid.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of **JPG** format and **PDF** format.
9. Contractor must ensure to quote rate in the prescribed column(s) mean 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.

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10. SC/ST contractors enlisted under class V category are exempted from processing fee payable to ITI.

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

- I. Valid Electrical License of the contractor.
OR
An undertaking that “I will associate the contractor having valid electrical license before the start of the work or I will obtain the valid electrical license before the start of work”.
- II. Enlistment Order of the Contractor.
- III. 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”. (OM No. DG/SOP/20 dated 13.04.2021)

- IV. **Copy of scanned EMD documents along with receipt for deposition of original EMD issued from division office of any Executive Engineer, CPWD (The EMD document shall be issued from the place in which the office of receiving division office is situated).**
- V. **ERP Training Certificate issued by National CPWD Academy (NCA), Ghaziabad/ Regional Training Institute, CPWD**

Any of the above documents found not upload on e-tender website, bids will be rejected.

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Receipt of deposition of original EMD
(Receipt No...../date.....)

1	Name of work	Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi.
2	NIT No.	57/ACED/2026-27/Recall-I
3	Estimated Cost	Rs. 9,12,801/-
4	Amount of Earnest Money Deposit	Rs. 18,256/-
5	Last date of submission of bid	Upto 27-10-2026 on 3.00 PM
(In favour of Executive Engineer (E), ACED, CPWD, Allahabad)		

1	Name of the Contractor	#.....
2	Form of EMD	#.....
3	Amount of Earnest Money Deposit	#.....
4	Date of submission of EMD	#.....
Signature, Name and Designation of EMD Receiving office (EE/AE(P)/AE/AAO) alongwith Office stamp		
(#To be filled by EMD receiving EE)		

Executive Engineer (E)
ACED, CPWD, Allahabad.

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**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER**

E-TENDERING

1. Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of Building & Road category Class II and above, and contractor of Class III, IV & V of NR Region of CPWD for the work of **Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi.**

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. 9,12,801.00.** This estimate, however, is given merely as a rough guide.
- 1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

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

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

Criteria of eligibility for submission of bid documents.

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

~~For works estimated cost upto tendering limit of class 1 composite category Contractor (However, for Horticulture and Furniture etc. discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be)~~

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

Note:-

~~For works costing above tendering limit of class II composite category contractors but upto tendering limit of Clause I composite category Contractor (However, for Horticulture and Furniture discipline, it may be modified as per bidding limit of CPWD class II and CPWD Class I contractors respectively of respective discipline as the case may be) when bids are open to non-CPWD contractors also, then class II contractors of CPWD registered shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.~~

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

For works estimated to cost above the tendering limit of class -1 composite category Contractor (However for Horticulture and Furniture discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be.) Three similar works each of value not less than Rs. or two similar work each of value not less than Rs.....or one similar work of value not less than Rs.....(all figures rounded to nearest convenient figure) in last 7 years ending previous day of last date of submission of bids.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid. This is applicable for 1.2.1 as well as 1.2.2 (This is not applicable for CPWD enlisted contractors of appropriate class in composite category)

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-

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

1.2.3 When bids are invited from non CPWD contractors and CPWD class II contractors as per provisions of clause 1.2.1 above, it will be mandatory for non CPWD contractors and CPWD class-II contractors to upload the work experience certificate(s) and the affidavit as per the provisions of clause 1.2.2.

But for such bids, Class-I contractors of CPWD are eligible to submit the bids without submission of work experience certificate and affidavit. Therefore, CPWD class-I contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters is mandatory otherwise system will not clear mandatory fields.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **02 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available. ~~OR The site for the work shall be made available in parts as specified below:-~~

.....
(ii) The architectural and structural drawing for the work is available

or

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

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- ~~after award of work.~~
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> free of cost.
 6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
 7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
 8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
 9. Earnest Money in the form of **Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of Executive Engineer (E), ACED, CPWD, Allahabad)** shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

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

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

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

The bid submitted shall be opened at **03:30 PM on 27-10-2026.**

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10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
- The bidder is found ineligible.
 - The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - 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.
 - 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.
(OM No. DG/SOP 2022/07 dated 09.11.2022)
11. The contractor whose bid is accepted will be required to furnish performance guarantee at **specified percentage** of the **tendered amount** as **mentioned in schedule E** and within the period specified in Schedule F. This guarantee shall be in the form of **Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks** in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.
12. **The description of the work is as follows:**
Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and

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- the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
 16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
 17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
 18. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system and 75 (seventy five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system. Further
 - (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
 19. This notice inviting Bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
 - (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - (b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.

~~20. For Composite Bids~~

~~20.1.1 The Executive Engineer in charge of the major component will call bids for the~~

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composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.

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

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

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

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

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

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

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

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

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

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

~~20.1.9~~ In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer 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.

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

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him.

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

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

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

21. **PAYMENT OF WAGES**

- (i) Wages due to every worker shall be paid to him direct **by contractor through Bank or ECS or online transfer to his bank account.**
- (ii) All wages shall be paid **through Bank or ECS or online transfer.**
- (iii) It shall be the duty of the contractor to ensure the disbursement of wages **through bank account of labour.**
- (iv) The contractor shall obtain from the Junior Engineer of any other authorized representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage cum-Muster Roll" as the case may be in the following form:-

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

Executive Engineer (E)
For & on behalf of the President of India

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**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS

- (A) Tender for the work of: **Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi.**
- (i) To be uploaded by **03:00 PM** hours on **27-10-2026** at <https://etender.cpwd.gov.in>.
- (ii) To be opened in presence of tenderers who may be present at **03:30 PM** hours on **27-10-2026**, in the office of **the Executive Engineer (E), CPWD, Allahabad.**

TENDER

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

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

We agree to keep the tender open for ~~thirty/ forty five / sixty/ ninety~~ (30/45/60/90) days from the due date of its opening in case of single bid system / ~~Ninety(90) days from the date of opening of technical bid in case tenders are invited on 2 bid/envelop system/ One hundred twenty(120) days from the date of opening of technical bid in case bids are invited on 3 bid/envelop system for specialised work (strike out as the case may be)~~ and not to make any modification in its terms and conditions.

A sum of **Rs. 18,256.00** is hereby forwarded in **Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee** issued by scheduled bank as earnest money.

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 performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

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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 `(Rupees).

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

- (a)
- (b)
- (c)

For & on behalf of President of India

Signature

Dated:

Designation

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PROFORMA OF SCHEDULES

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders) (Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities (Attached Page No. 36-41)

SCHEDULE 'D'

Extra schedule for specific requirements/ document for the work, if any.

-----NIL-----

SCHEDULE 'E'

Reference to General Conditions of contract. **GCC 2023 for Maintenance Works** as amended/modified **upto date**.

Name of Work	:	Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi.
Estimated cost of the work	:	Rs. 9,12,801.00
Performance Guarantee	:	5% of the Estimated cost put to tender or contract amount whichever is higher. Additional Performance Guarantee (In case quoted bid amount is lesser than 80% of ECPT) - The amount shall be equivalent to difference between the 80% amount of ECPT & quoted amount.
Security Deposit	:	2.5 % of the tendered value of the work

SCHEDULE 'F'**General rules and directions:**

Officer inviting tender

Executive Engineer (E), CPWD, Allahabad.

Definitions:

2(v) Engineer-in-Charge

Executive Engineer (E), CPWD, Allahabad.

2(viii) Accepting Authority

Executive Engineer (E), CPWD, Allahabad.

2(x) Percentage on cost of materials and labour to cover all overheads and profits

15%

2(xi) Standard Schedule of Rates:

DSR 2025 & MR

2(xii) Department

Central Public Works Department

9(ii) Standard CPWD contract Form GCC 2020, CPWD Form 7/8 as modified & corrected upto

GCC 2023 (Maintenance Work), CPWD form 7 as modified & corrected up to last date of submission of tender.

Clause 1

- (i) Time allowed for submission of Performance Guarantee, programme chart (Time and progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW welfare board or proof of applying thereof from the date of issue of letter of acceptance 07 Days
- (ii) Maximum allowable extension **with late fee @ 0.1% per day of Performance Guarantee amount beyond the period as provided in (i) above** 03 Days

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Clause 2

Authority for fixing Compensation under Clause 2

**Superintending Engineer, CPWD,
Allahabad or successor thereof.****Clause 2 A**

Whether Clause 2/Clause 2A shall be applicable

No**Clause 5**

Applicable clause 5/ Clause 5A

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start Mile stone(s) as per table given below: -

10 Days

Sl. No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be with-held in case of non-achievement of milestone
	NIL		

Time allowed for execution of work

02 Months**Authority to decide**

Extension of time	Engineer-in-Charge or successor thereof .
Rescheduling of mile stone	Superintending Engineer, CPWD, Allahabad or successor thereof.
Shifting of date of start in case of delay in handling over of site	Superintending Engineer, CPWD, Allahabad or successor thereof.

PROFORMA OF SCHEDULE Clause 5 Schedule of handing over of site

Part	Portion of site	Description	Time Period for handling over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	} Site is available.	
Part B	Portions with encumbrances		
Part C	Portions dependent on work of other agencies		

Clause 6**Electronic Measurement Book (e-MB)****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

As mutually agreed**Clause 7A**

Whether Clause 7A shall be applicable

Yes

Clause 10A

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

NA

Clause 10B(ii)

Whether clause 10-B(ii) and shall be applicable

NA

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Clause 10C

Component of labour expressed as percentage of value of work

NA

Clause 10CC**Not Applicable**

Schedule of component of other Materials, Labour etc. for price escalation. Component of civil (except materials covered under clause 10CA)/ Electrical construction value of work	
Component of Labour -Expressed as percent of total value of work.	

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

Clause 11

Specification to be followed for execution of work:

CPWD General Specifications Part-I for Internal Electrical Works 2023 and Part-II External Electrical Works 2023, Part V Wet Riser & Sprinkler Systems-2020, Part VI Fire Detection and Alarm System-2018 & CPWD General Specification for Electrical Works, all as amended up to date.

Clause 12: -

(As per OM No. – DG/CON/Maint. 2023/03 dated 18.12.2023)

12.2.,12.3

Deviation limit beyond which clause 12.2 & :
12.3 shall apply for building work

No Limit**12.5**

(i) Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation Work **(except earth work)**

N/A

(ii) Deviation Limit for items in earth work sub head of DSR or related items

N/A

Clause 16

Competent Authority for Deciding reduced rates:

**Superintending Engineer, CPWD,
Allahabad**

Clause 18

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

As per attached

Clause 19C **Executive Engineer (E), CPWD, Allahabad**

Clause 19D **Executive Engineer (E), CPWD, Allahabad**

Clause 19G **Executive Engineer (E), CPWD, Allahabad**

Clause 19K **Executive Engineer (E), CPWD, Allahabad**

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Clause 25

(i)	Conciliator	ADG (Lucknow) or successor thereof
(ii)	Arbitrator Appointing Authority	Superintending Engineer, Allahabad, CPWD, Prayagraj or successor thereof
(iii)	Place (Seat) of Arbitration	Prayagraj (U.P.)

Clause 32

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
N.A.							

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

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

Clause 38**Not Applicable**

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ANNEXURE**Clause - 18****List of mandatory machinery, tools and plants & testing Equipment to be deployed by the contractor at site**

1.	Steel/Aluminium Ladder 1.5 m to 8 m.	2 Nos.
2.	Chase cutting machines.	2 Nos.
3.	Electrical wire drawing equipment.	2 Set.
4.	Torque wrench for nut/bolt/screws.	2 Nos.
5.	Conduit die set.	2 Set.
6.	Pipe vice.	1 No.
7.	Bench vice.	1 No.
8.	L.T.Megger 500/1000 volts.	1 No.
9.	Tong Tester.	1 No.
10.	Multimeter.	1 No.
11.	Hydraulically operated & hand operated crimping machine.	1 No.
12.	Earth tester.	1 No.
13.	Portable Ordinary drilling machine.	2 Nos.
14.	Portable Hammer drilling machine.	2 Nos.
15.	Overhead conduit puller.	1 No.
16.	Insulation Tester LT/HT.	1 No.

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CONDITIONS FOR ASSOCIATE AGENCY FOR E&M WORKS

1. The tenderer should either himself meet the eligibility conditions for execution of minor component of work i.e. E&M work (specialized E&M) Works or otherwise he will have to associate with agencies, fulfilling the eligibility requirements prescribed in the tender document.
2. In case the main contractor is himself eligible (as per eligibility criteria) for executing all or some components of E&M work and intends doing job himself, he may not be required to associate with another agency for such components of E&M work of work. In such cases the main contractor also has to submit the documents as per eligibility criteria mentioned for associated agency of individual E&M component(s) along with submission of Performance Guarantee.
3. In case, the main contractor himself is not eligible (as per eligibility criteria) for executing any of the components of E&M work, he can directly procure the equipment of approved make from OEM and get it installed from authorized agency/service provider of the OEM or specialized agency as per criteria mentioned for associate eligible agency.
4. In case the main contractor himself is not eligible (as per eligibility criteria) and also not willing to directly procure the equipment as per Para-3 above, he will have to associate with him eligible agencies for doing such components of E&M work. In such cases the main contractor has to submit proposal for approval of associate agency along with documents in support of fulfilling eligibility criteria mentioned for associated agency of individual E&M components along with submission of Performance Guarantee.
5. In the event of the associated E&M agency not performing satisfactorily or failure of associate agency to execute/complete the E&M work, the main contractor on written directions of the department, shall remove the Associate agency deployed on the work and shall submit proposal for approval of new associate agency without any loss of time or variation in cost to the department. Such new associate agency shall also give an undertaking along with the main tenderer that both of them shall guarantee for the equipment already supplied for which payment has been released by the department in part. If any equipment supplied for the work, during the currency of the earlier associate agency 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 the department. No change of associate agency will be allowed without prior approval of the Engineer-in-charge of the work.
6. The main contractor shall be responsible and liable for proper and complete execution of the Electrical work and ensure coordination and completion of all electrical component work.
7. The associate contractor shall attend the inspection of the work by the Engineer-in- charge of E&M works as and when required.

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PROPOSAL FOR ASSOCIATING AGENCY FOR E&M WORKS

I/we hereby propose the following agency for execution of E & M work component mentioned herein. Consent Letter from the proposed associated agency is enclosed.

1. Name of work: *Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi.*

2. Component of E&M Work :

(i) Name of Associated Agency :

(ii) Details of Enlistment :

(iii) Category and Class of Enlistment :

(iv) Monetary limit of work in Enlistment :

(v) Validity of Enlistment :

(vi) Copy of Enlistment Order attached : (Yes /No)

(vii) Copy of electrical contractor license attached: (Yes /No)

(viii) Copy of completion certificates of similar work experience attached: (Yes /No)

(ix) Copy of GST Registration attached : (Yes/No)

(x) Copy of PAN Card Attached : (Yes/No)

(xi) Consent Letter of agency attached : (Yes/No)

Encls: Self Attested photocopies of as stated above

Seal & Signature of the Main Contractor

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ON 100 Rs. STAMP PAPER
MEMORANDUM OF UNDERSTANDING [M.O.U] BETWEEN

Component of E&M WORK:-----

- 1] M/S [Name of the firm with full address]
 Enlistment Status
 Valid Upto:
 [Henceforth called the main contractor]

And

- 2] M/S [Name of the firm with full address]
 Enlistment Status
 Valid Upto:
 [Henceforth, called Associated Contractor]

Name of Work:- *Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi..*

NIT No. -

Whereas the main contractor has agreed to entrust the above work only to the associated contractor.

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

We have further agreed as under:

1. The Associated Contractor will execute above work as per terms and conditions of this agreement.
2. All the machinery and equipment, tools and tackles required for execution of the above work, as per this MoU, shall be the responsibility of the Associated Contractor.
3. The site staff required for the execution of above work shall be arranged by the Associated Contractor as per terms and conditions of this MoU.
4. All the correspondence regarding execution of the above work shall be done by the department with the main contractor. In case of non-compliance of the provisions of agreement of the work

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by the associated contractor, the main contractor shall be held responsible and action will be taken against him as per agreement provisions.

5. In case of non-performance, associated contractor will be debarred from participation or association in the CPWD tenders by the CPWD.

(Authorized Signatory)

SIGNATURE OF MAIN CONTRACTOR

Date :

Place :

1. Witness with address

(From main contractor side)

(Authorized Signatory)

SIGNATURE OF ASSOCIATED CONTRACTOR

Date :

Place :

1. Witness with address

(From associated contractor side)

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WILLINGNESS CERTIFICATE

Name of Work:- *Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi..*

Component of E&M WORK:-----

I hereby give my willingness to work as associated contractor for the above mentioned work.

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

Date:

Signature of Contractor

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(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/Performance
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 off 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 notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We, ... (indicate the name of the Bank)....., further agree that the 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

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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 notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank of 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. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date

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.

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PART-B

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Terms & Conditions

Specification:- The work shall be executed as per CPWD's general specification for Electrical Works part-I (Internal)-2023, Part-II (External)-2023, Part-IV (Sub-station)-2013, Part-V (Wet Riser System for Fire Fighting Installation)-2020, IE Rules, Indian Standards amended upto date and as per direction of Engineer-in-Charge. The additional specifications are to be read with above and in case of any variations; specifications given along with the tender shall apply.

Location:- The work is to be executed at **SIB Pandeypur, Varanasi**. The Contractor is advised to visit the site before submission of their tender.

Related Documents

These General Specifications shall be read in conjunction with the general conditions of contract, tender specifications, schedule of work, drawings and other documents connected with the work. In the event of any discrepancy between these specifications and general conditions of contract and tender specifications, the latter shall override the former.

Terminology

The definition of terms used in these specifications shall be in accordance with relevant IS.

Site Information

The tenderer should, in his own interest, visit the site and familiarize himself with the site conditions before tendering. For any clarification, tenderer may discuss with the Engineer-in-Charge.

CONFORMITY WITH STATUTORY ACTS, RULES, ORDERS, STANDARDS AND CODES

(i) All components and their installation shall conform to relevant Indian Standard Specifications, wherever existing, amended to date.

(ii) As per Public Procurement (Preference to Make in India) Order (PPP-MII Order), inclusion of foreign standards/certification in tenders, thereby excluding local manufacturers, is violative of the Order.

Therefore, utmost care shall be taken to stipulate Indian Standards/certifications instead of foreign standards/certifications for various products/materials in the tender documents.

In all cases, the PPP-MII Order 2017 as amended shall be strictly complied.

(iii) All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2010, NEC 2011 amended to date. They shall also conform to CPWD General Specifications for Electrical Works, Part-I (Internal)-2013, Part-II (External)- 1994, Part IV (Sub-station) 2013 and Part-VII (D G Sets)-2013 amended to date.

SAFETY CODES AND LABOUR REGULATIONS

(i) In respect of all labour employed directly or indirectly on the work for the performance of the firefighting contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions including "Safety, Health and Environment Handbook 2019" published by CPWD, B.I.S recommendations, Factory Act, Workman's Compensation Act, CPWD Code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty to be decided by Engineer-in-charge. In addition, the Engineer-in-charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost incurred thereon from the contractor.

(ii) The contractor shall provide necessary barriers, warning signals and other safety measures while laying pipelines, cables etc. or wherever necessary so as to avoid accident. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be

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liable, in accordance with the Indian Law and Regulations, for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising therefrom during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

WORKS TO BE DONE BY THE CONTRACTOR

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in the tendered cost- whether specifically indicated in the Schedule of Work or not: -

- (i) Foundations for equipment including foundation bolts and vibration isolation spring/pads,
- (ii) Suspenders, brackets and floor/wall supports for suspending/supporting pipes.
- (iii) Suspenders and/or cable trays for laying the cables,
- (iv) Excavation and refilling of trenches in soil wherever the pipes are to be laid directly in ground, including necessary base treatment and supports.
- (v) Sealing of all floor slab/wall openings provided by the Department or made by the contractor for pipes and cables, from fire safety point of view, after laying of the same.
- (vi) Painting of all exposed metal surfaces of equipment and components with appropriate colour (The entire metal work above ground level shall be painted with red color shade No. 536 of IS:5 .)
- (vii) Making openings in the walls/floors/slabs or modification in the existing openings wherever provided for carrying pipe line, cables etc.
- (viii) All electrical works including cable/wires, earthing etc. beyond power supply made available by the department.
- (ix) Making good all damages caused to the structure during installation and restoring the same to their original finish.
- (x) Approval from local fire authorities as may be required as per local bye-laws.

Power & Water Supply: - Responsibility for supply of power & water for execution of work shall be of main contractor.

MACHINERY FOR ERECTION

All tools and tackles required for unloading / handling of equipment and materials at site, their assembly, erection, testing and commissioning shall be the responsibility of the contractor.

COMPLETENESS OF THE TENDER, SUBMISSION OF PROGRAMME, APPROVAL OF DRAWINGS AND COMMENCEMENT OF WORK

(i) Completeness of the tender:-

All sundry equipment, fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, junction boxes and all other items which are useful and necessary for proper assembly and efficient working of the various equipment 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 or not.

(ii) Submission of programme:-

Within fifteen days from the date of receipt of the letter of award, the successful tenderer shall submit his programme for submission of drawings, supply of equipment, installation, testing, commissioning and handing over of the installation to the Engineer-in-Charge. This programme shall be framed keeping in view the building progress and the Milestones fixed in Schedule 'F' Clause-5 of General Conditions of Contract. Items like piping etc. that directly affect the building progress shall be given priority. Hose pipes, branch pipes, first aid hose reel pipes shall be supplied just before commissioning the system.

(iii) Submission of Drawings:-

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The contractor shall submit the drawings to the Engineer-in-Charge as per para 1.17.2 for approval before start of work.

(iv) Commencement of work:-

The contractor shall commence work as soon as the drawings submitted by him are approved either in full or in part as the case may be.

DISPATCH OF MATERIALS TO SITE AND THEIR SAFE CUSTODY

The material in required quantity to be used in the work shall be got approved from the Engineer-in-charge before its use at site. The Engineer-in-charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.

Contractor shall preserve the copies of invoices, test certificates; gate passes etc. to prove the genuineness of material/purchases. The responsibility of procurement, genuine material of specialized works shall rest with the contractor.

The contractor shall dispatch materials to site in consultation with the Engineer-in- Charge. Watch and ward shall be the responsibility of contractor. Programme of dispatch of material shall be framed keeping in view the building progress. Safe custody of all machinery and equipment supplied by the contractor shall be the responsibility of the contractor till final taking over by the department.

Storage: - Responsibility for storage space for execution of work shall be of main contractor.

CO-ORDINATION WITH OTHER AGENCIES

The contractor shall co-ordinate with all other agencies involved at the site of work so that the work of other agencies is not hampered due to delay in his work. Piping, cabling or any other work, which directly affect the progress of work of other agencies, shall be given priority.

QUALITY OF MATERIALS AND WORKMANSHIP

(i) The components of the installation shall be of such design so as to satisfactorily function under all conditions of operation.

(ii) The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.

(iii) All equipment and materials to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales service.

CARE OF THE BUILDING

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

COLOUR SCHEME FOR THE EQUIPMENT AND COMPONENTS

1. The entire metal work above ground level shall be painted with red color shade No. 536 of IS:5 .
2. Pump, motor and engine shall be painted with red color shade No. 536 of IS:5

INSPECTION AND TESTING

1. Initial Inspection and testing

(i) Initial inspection of materials and equipment at manufacturer's works may be done by the Engineer-in-Charge or his representative. For item/ equipment requiring initial inspection at manufacturer's works, the contractor will intimate the date of testing of equipment at the manufacturer's works before dispatch. The contractor shall give sufficient advance notice regarding the dates proposed for such tests to the department's representative(s) to facilitate his presence during testing. The Engineer-in-

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charge at his discretion may witness such testing. Equipment will be inspected at the manufacturer/ authorized dealer's premises, before dispatch to the site by the contractor.

(ii) The department also reserves the right to inspect the fabrication job at factory and the successful tenderer has to make arrangements for the same.

(iii) The materials duly inspected by Engineer-in-Charge or his authorized representative shall be dispatched to site by the contractor.

(iv) No additional payment shall be made to the contractor for initial inspection/testing at the manufacturer's works by the representative of the Engineer-in-Charge. However, the department will bear the expenses of its representative deputed for carrying out initial inspection/testing.

2. Final Inspection and Testing

Final Inspection and testing will be done by the Engineer-in-Charge or his representative

The installation will be offered for inspection of local bodies (Chief Fire Officer). The contractor or his representative shall attend such inspection of the Chief Fire Officer, extend all test facilities as are considered necessary, rectify and comply with all observations of the Chief Fire Officer which are part of the agreement and arrange for obtaining necessary clearance certificate in favour of the department. The installation will be accepted by the department only after receiving clearance from Chief Fire Officer for the work executed by the contractor under the agreement.

Approval from CFO:-

The Contractor shall be required to obtain NOC from Chief Fire Officer and work shall be deemed to be completed only after receiving NOC from CFO & rectification if any. Statutory fee if any shall be paid by department. However, all liasoning work / arranging inspection of CFO shall be the responsibility of contractor.

3. Safety Measures

All equipment shall incorporate suitable safety provisions to ensure safety of the operating personnel at all times. The initial and final inspection reports shall bring out explicitly the safety provisions incorporated in each equipment.

GUARANTEE

(i) The contractor shall guarantee the complete system to provide the specified flow and pressure under all conditions at outlets.

(ii) All equipment shall be guaranteed for a period of 12 months from the date of acceptance and taking over of the installation by the Department against unsatisfactory performance and/or breakdown due to defective design, material, manufacture, workmanship or installation. The equipment or component or any part thereof so found defective during the guarantee period shall be 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 Engineer-in-charge in this regard shall be final.

PAYMENT TERMS

1. The following percentage of contract rates shall be payable against the stages of work shown herein:

Stage of work	Machinery and Equipment (Pumps and Electrical Panel)
After initial inspection (wherever specified) and delivery at site in good condition on pro-rata basis	70%
On completion of installation on pro-rata basis	20%
On testing, commissioning and handing over.	10%

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TENDER DRAWINGS, DRAWINGS FOR APPROVAL AND COMPLETION DRAWINGS**1. Drawings for approval on award of the work**

The contractor shall prepare and submit following drawings and get them approved from the Engineer-in-charge before the start of the work. The approval of drawings however does not absolve the contractor of his responsibility to supply the equipment/materials as per agreement. In case of any contradiction between the approved drawings and agreement the decision of the Engineer-in-Charge shall be final and binding on the contractor.

- (a) Layout drawings of the equipment to be installed in pump room and terrace
- (b) Drawings showing the details of erection of entire equipment including their foundations
- (c) Plumbing drawings showing the layout of entire piping, diameter and length of pipes, hydrant, air vessel, valves and isometric drawings showing connections to various equipment
- (d) Sprinkler drawing indicating layout and sizes of pipe, location of valves, sprinklers etc.
- (e) Electrical wiring diagrams for all electrical equipment and controls including the sizes and capacities of the various cables and equipment
- (f) Dimensioned drawings of all electrical and control panels
- (g) Drawings showing details of supports for pipes, cable trays etc.
- (h) Any other drawing(s) relevant to the work

2. Completion Drawings

Three sets of the following laminated drawings shall be submitted by the contractor while handing over the installation to the Department. Out of this one of the sets shall be laminated on a hard base for display in the fire control room. In addition, one set will be given on compact disc.

- (a) Installation drawings giving complete details of all the equipment, including their foundations,
- (b) Plumbing layout drawings giving sizes and lengths of all the pipes and the sizes and locations of all types of valves, and including isometric drawings for the entire piping including the pipe connections to the various equipment,
- (c) Line diagram and layout of all electrical control panels giving switchgear ratings and their disposition, cable feeder sizes and their layout,
- (d) Control wiring drawings with all control components and sequence of operations to explain the operation of control circuits.

DOCUMENTS TO BE FURNISHED ON COMPLETION OF INSTALLATION

Three sets of the following documents shall be furnished to the department by the contractor on completion of work:-

- (a) Completion drawings as per Para “**Completion Drawings**”.
- (b) 3 sets of manufacturer’s technical catalogues of all equipment and accessories.
- (c) Operation and maintenance manual of all major equipment, detailing all adjustments, operation and maintenance procedure.
- (d) Name plate details of all equipment.

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Schedule of Work							
Name of Work:- Upgradation of fire fighting System of SIB Building, Pandeypur, Varanasi.							
Sl.	Description of Item	Qty	Unit	Rate	Unit	Amount	Remarks
	Sub Head- I (Fire Fighting System)						
1	Supplying of one number PVC insulated and PVC sheathed / XLPE armoured aluminium conductor power cable of 1.1 KV grade of following sizes etc. as required.						
1.1	4C x 50 Sqmm.	80.00	Mtr	741.00	Meter	59,280.00	MR
1.2	3C x 16 Sqmm.	40.00	Mtr	236.00	Meter	9,440.00	MR
2	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.						DSR-2025
2.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	40.00	Mtr	64.00	Meter	2,560.00	10.7.1
2.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	80.00	Mtr	151.00	Meter	12,080.00	10.7.2
3	Supplying and installation following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with two numbers MS/GI Suspenders i/c base of suitable size MS/GI angle, bolts & nuts, painting suspenders, fastener etc as reqd.						
3.1	200 mm widthX50 mm depthX1.6 mm thickness	15.00	Mtr	775.00	Meter	11,625.00	4.1.3
4	Earthing with G.I. earth pipe 4.5 Meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	1.00	Set	7,658.00	Set	7,658.00	5.2
5	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required	150.00	Mtr	50.00	Meter	7,500.00	5.18

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6	(a) Supplying, installation, testing and commissioning of electric driven terrace pump conforming to IS 12469: 2019 suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump) (b) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal as required. (c) Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class 'F' insulation, conforming to IS-12615: 2018. (d) M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required. (e) Suitable cement concrete foundation duly plastered and with anti vibration pads.						
6.1	450 lpm at 35 m Head	2.00	Nos	1,71,961.00	Each	3,43,922.00	M/R
7	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required						
7.1	Single headed Gun metal	4.00	Nos	8,208.00	Each	32,832.00	27.9.1
8	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 IS 13095 of following sizes as required :						
8.1	80 mm dia	4.00	Nos	5,406.00	Each	21,624.00	27.11.4
9	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 :						
9.1	80 mm dia	2.00	Nos	8,255.00	Each	16,510.00	27.14.4
9.2	100 mm dia	1.00	No	11,853.00	Each	11,853.00	27.14.5
10	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.						
10.1	80 mm dia	2.00	Nos	5,117.00	Each	10,234.00	27.15.1

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11	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. (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 equipments on wall. (d) Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.						
11.1	30 m	3.00	Nos	9,440.00	Each	28,320.00	27.17.1
12	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						
12.1	2 way-100 mm dia M.S. Pipe	1.00	No	7,262.00	Each	7,262.00	27.19.1
13	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.	1.00	No	19,402.00	Each	19,402.00	27.20
14	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.	1.00	No	1,670.00	Each	1,670.00	27.22
15	Providing and fixing in position industrial type pressure gauges with gun metal / brass valves complete etc. as required	1.00	No	1,491.00	Each	1,491.00	30.8
16	Fabrication, supply, Installation testing & commissioning of Fire Fighting Pump Electrical control panel (Outdoor type) 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 internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 54 as required :						
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	63A, 25 kA 4 Pole MCCB, Ics=100% Icu rating, Thermal magnetic release with rotary operating handle and spreader link Digital Voltmeter 0-500V with selector switch-01 set						
	Digital Ammeter (0-150 A) with selector switch & CTs etc.						
	LED type RYB phase indicating lamps, ON, OFF, trip						
	B -Bus Bar						
	Electrolytic high conductivity TPN COPPER bus bars of minimum of 100 A at shrinkable coloured sleeves and i/c DMC/SMC bus bar cross section,						
	C -Out going						
	1. 32A, 16kA TPN MCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for above terrace pumps (min 7.5 HP) with overload protection, current sensing type single phase preventor, phase sequence preventor, provision of Rotor Lock complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation - 2 nos.	1.00	set	1,27,758.00	set	1,27,758.00	MR
17	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	10.00	Mtr	84.00	meter	840.00	5.16
18	Painting of existing MS pipe of fire fighting on terrace and in shaft with suitable primer and synthetic enamel paint of Red color for MS pipe etc complete as required.						Civil DSR V-2
18.1	Two or more coats	10.00	Sqm	181.25	Sqm	1,812.46	13.53.1
19	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.						
19.1	4 X 50 sq. mm (35mm)	2.00	Set	489.00	Each	978.00	11.1.35
20	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.						
20.1	Stainless Steel (Grade 304)	8.00	Nos	4,667.00	Each	37,336.00	27.16.2
21	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						

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21.1	80 mm dia	10.00	Mtr	2,277.00	meter	22,770.00	27.7.6
22	12 mm cement plaster of mix :						
22.1	1:4 (1 cement: 4 fine sand)	10.00	sqm	347.81	each	3,478.10	13.1.1
23	Supplying and fixing of hose cabinet of size 900mm x 600mm x 300mm made of 2mm thick MS sheet with 6mm thick glazed glass doorsill necessary locking arrangement suitable to accommodate FIRE BRIGADE inlet connection , 2 Nos. 15 mtr. Long Hose pipe (63mm dia) with male & female SS coupling, 1 No. SS branch pipe, mounted on wall OR raised existing platform & duly painted with Post office red externally and white internally with synthetic enamel paint complete in all respect, as required.	4.00	Nos	10,365.00	each	41,460.00	M/R
	Sub Head-II : (Fire Alarm System)						
24	8 Zone Microprocessor based Main Fire Alarm Control Panel made out of 16/18 SWG CRCA Sheet duly powder coated in approved colour with louvers for ventilation, locking arrangement, having provision of each zone address/location programming via keypad, each zone power isolation & loop voltage cut-off facility, Minimum 999 event data logging storage, High resolution LCD display. Incorporated Software controlled. Having C/NC/NO potential free relay control for FIRE, OPEN & SHORT. Walk test facility and open Communication port with RS-485 card to networking with Other Panel or Repeater Panel, Heavy duty power supply of 230VAC and frequency of 50 Hz 8Amp 24volt DC separate output for battery charger, all the feature accommodate in single wall mount double door with locking arrangement cabinet, complete in all respect as per IS-2189-2008 features as required. extra space for further features upgradations construction like signal relay and i/o ADC sensor output extra space for modules as per your site requirement.	1.00	Set	51,770.00	Each	51,770.00	M/R
25	Supplying, installation, testing & commissioning response indicator on surface/recess MS box having two LEDs metallic cover complete with all connections etc. as required.	20.00	Nos	222.00	Each	4,440.00	28.1.5
26	Supplying, installation, testing & commissioning of smoke detector with built in LED and mounting base complete with all connections etc. as required.	15.00	Nos	1,223.00	Each	18,345.00	28.1.2

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27	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.						
27.1	2 x 1.5 sq. mm	150.00	Mtr	77.00	Meter	11,550.00	1.17.2
28	Credit for old dismantle materials:-						
28.1	3 phase 5.5 kW induction motor	1.00	Nos	-5,000.00	Each	-5,000.00	
28.2	100 mm dia NRV	3.00	Nos	-800.00	Each	-2,400.00	
28.3	100 mm dia Butterfly Valve	4.00	Nos	-600.00	Each	-2,400.00	
28.4	30 m Hose reel with Pipe	3.00	Nos	-500.00	Each	-1,500.00	
28.5	600mm X 900mm MM box with Hose pipe	4.00	Nos	-500.00	Each	-2,000.00	
28.6	2-way FBC	1.00	Nos	-1,000.00	Each	-1,000.00	
28.7	Starter Panel	1.00	Nos	-200.00	Each	-200.00	
28.8	8 zone conventional fire panel	1.00	Nos	-500.00	Each	-500.00	
					Total	9,12,800.56	
					Say	9,12,801.00	

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PREFERRED MAKES OF MATERIALS FOR E & M

Sl.	Details of Materials/ Equipment	Manufacturer's Name
	I.E.I, MCBDB & MCB, Cables and Wires	
1	MCB, Isolator, Industrial plug Socket, RCCB, RCBO's (ISI Marked/IEC Compliant)	Schneider Electric ACTI-9(N)/ Legrand (DX3)/ LK (Formerly L&T) (Exora)/ ABB (SB200M)/Siemens (Betaguard)/Havells
2	MCBDB & Loose Wire Box	Schneider Electric (Acti-9)/ LK(Exora)/Siemens/ ABB (Elegance)/ Havells/ Legrand (Ekinox)
3	Change Over Switch	LK/ Havells/ Hager
4	Automatic Transfer Switch (ATS)	Socomac/Hager/ABB/ LK/Schneider/Siemens
5	FRLS PVC insulated copper conductor single core cable for wiring. (ISI marked)	Finolex/ RR Kabel/ Havells/ Polycab/ KEI/Grandlay
6	Armoured/Unarmoured Telephone cable, Coaxial Cable	Delton/ Finolex/ RR Kabel/ Havells/ Grandlay
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 and will comply to IS/4768 part 2 2003)
8	PVC conduit (ISI marked) with heavy duty PVC conduit pipe accessories	AKG/ Norpack/BEC/Polypack/Precision/Anchor/ Polycab
9	Modular switches, socket/ telephone socket/ cable TV socket/ data outlet socket/ fan regulator/ GI boxes etc (Wiring accessories)/ regulators/ Motor starter etc.	Legrand / Schneider electric / Wipro / Hager / M.K. /Havells / ABB
10	Industrial Socket	L&T/Legrand/Schneider/Havells/ABB
11	Selector Switch & Toggle Switch	Salzer (L&T)/ Siemens/ Kaycee/Rishabh/ABB
12	PVC Trunking	MK/ Schneider Electric/ Legrand/OBO
13	GI Pipe	Tata/ Jindal (Hissar)/ Prakash Surya
14	Paints	Nerolac/ Asian/ Berger
15	Terminal Blocks & Connectors	Elmax/Wago/Hensel/Connectwell
16	Phenolic Laminated Sheet/ Bakelite sheet	Hylam/ Formica (P-I Grade)/ Mylam/Greenlam
17	Cat-6 Cable, Co-Axial cables, Telephone Wires & cable	Amp, Avaya/ Beldon/ Legrand/ Molex/ Schneider/ Comscope/ D-Link
	Fans & Fittings	
1	LED Fittings (ISI Marked/BEE Certified)	Phillips/Wipro/Crompton/Havells
2	Exhaust fan/Fresh Air Fan	Phillips/Wipro/Crompton/Havells
3	Ceiling Fan ISI Marked/BEE Certified)/Wall Fan	Phillips/Wipro/Crompton/Havells
4	Wall Bracket Fitting	Havells/ Decon / Phillips/Lighting Technology/ Luster/ Jaquar/Anchor Panasonic/ Orient Electric/Halonix/Crompton
5	Geysers (BEE Certified)	Racold/CG/Havells/Usha/Jaquar/Bajaj
	Street Lighting	
1	LED post Top fitting	Phillips/Wipro/Crompton/Havells
2	LED Street light fitting	Phillips/Wipro/Crompton/Havells
3	LED street lights with inbuilt Solar panel	Phillips/Wipro/Crompton/Havells

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	and controller	
4	Ornamental MS & G.I pole (factory finish)	Keselec Schreder- Ecopole3m ATG in GI with base plate/ Valmont / Wipro/ Phillips/ Crompton greaves/ Bajaj/Paruthi Engineers Pvt. Ltd./ Luster/Twinkle
5	Hot Dipped Galvanized Octagonal Pole (Factory finish)	Valmont/ Wipro/ Phillips/Crompton Greaves/Bajaj/ Paruthi Engineers Pvt. Ltd.
6	Polycarbonate Junction Box/ Enclosure	Hensel/ Spelsberg/ Naptune-Bals/OBO
7	XLPE Insulated PVC Sheathed Alum./ Copper Conductor Armored Cable of 1.1KV Grade	Finloex/ RR Kabel/KEI/Havells/Polycab/Grandlay
	Sub Station Equipments	
1	LT panel/ Meter Panel Board/ Outdoor Feeder Pillar/APFC panels / Bus ducts	Tricolite Electrical Industries/ Sterling & Wilson/ MILESTONE/ Adlec Control System Pvt. Ltd./ Advance Panels & Switchgears Pvt. Ltd./ Associated Switchgears & Projects Ltd/ Allied Engineers/ Pristine/ SPC Electrotech Pvt. Ltd. /ASES/Shalabh/ R P Control/Excel Control System
2	SMDB	Schneider Electric ACTI-9(N)/Legrand/LK(FORMERLY L&T)(ENERSYS-S)/ABB(Elegance)/Siemens
3	Air insulated Rising Main/ Bus Trunking & accessories	L&T/Schneider/Legrand/Godrej
4	Sandwich type bus Trunking/ Rising Main & accessories	L&T/Schneider/Legrand/Godrej
5	Moulded Case Circuit Breaker (MCCB) Thermal Release/ Microprocessor Based (Ics=Icu=100%)	Schneider electric NSX series/ Legrand (DPX3)/ L&T(D-Sine)/ABB(T-Max)/Siemens(VL series)
6	Power/ Aux. Contactor 3/4 Pole	Schneider Electric/ Legrand/ L&T/ ABB/ Siemens
7	Potential transformers/ Current Transformers	Automatic Electric/ Gilbert & Maxwell/ Matrix/ Precise/ L&T/ Kappa
8	LED Type Indicating Lamps/ Push button	Schneider electric /L&T / Siemens/ Vaishno
9	Over load relays	Schneider Electric/ L&T/ Siemens/ ABB
10	Conventional/Electronic Digital Meters (A/V/PF/Hz/KW/KWH)	Conzerv/ L&T/ Secure/ AE
11	Timer	Schneider Electric/ Legrand / Hager / L&T/ABB/Siemens
12	Fasteners/ GI Clamps	Hilti/ Fisher/ Chilli / GMGR
13	D.W. Corrugated HDPE Pipe (ISI Marked)	REX/ Duraplast/Duraline/CPE
14	Transformer (Oil/ Dry pipe)	Crompton/ ABB/ Schneider/VOLTAMP
15	HT Panel/ Ring main Unit	Compton/ Siemens/ ABB/ L&T/ Schneider
16	H.T. Cable (ISI marked)	Finloex/ RR Kabel/KEI/Havells/Polycab
17	HT End Termination/Cable Joining Kit	Reychem/ Denson/ Cab Seal/safekei/3M
18	ACBs with Display	Schneider Elecric(Masterpact)/Legrand(DMX3MP4)/L&T (U-Power-OMEGA)/ABB(Emax)PR122/Seimens
19	Rubber mat	Jyoti/ Deep Jyoti/ Premier (Duly ISI Marked)
20	Ammeter	Rishab/ L&T/AE
21	Voltmeter	Rishabh/ L&T/AE
22	Capacitor and Reactors /APFC Relay	EPCOS/ L&T/ DUCATI/ ABB/ Siemens/ Schneider
23	XLPE Insulated PVC Sheathed Alum./ Copper Conductor Armored/ Unarmored	Finloex/RR kabel/KEI/ Havells/Polyacab/ Grandlay

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	Cable of 1.1KV Grade	
24	Cable Glands Double Compression With Earthing Links	Baliga Lighting/ Comet/ Cosmos/ Dowells/Gripwell
25	Bimetallic Cable Lug	Comet/ Dowells (Biller India)/ Hex Brass (Copper Alloy India) / Jainson/ Action
26	MS/ GI Cable Tray	Pilco/slotco/pasco/MEM/ BEC/ steelways/ Legrand/ RMcon/True leader/R.P. Controls/OBO
27	Programmable Logic Controller (PLC)	Siemens/ Allen Bradley/ L&T/ ABB
	Fire Fighting Equipments	
1	MS pipe	Tata/ Jindal (Hisar)/Sail
2	GI Pipe	Tata/ Jindal (Hisar)/Sail
3	Forged Steel Fittings/flanges	Johnsons Industries/ VS Forge/ JK Forging/ True forge
4	Forged Steel Fittings and flanges (for welding joints)	VS Forge/Rohini/kanwal forge/Johnson/ True forge
5	Pipe hangers	Chilli/Hilti/GMGR
6	Gun metal/ Brass Valve (ISI marked) / (Full way Globe valve/Non return valve)	Sant/ Leader/ Advance/ Zoloto/ Kirloskar
7	Butterfly/Sluice (ISI marked)	Audco/ Sant/ Leader/ Advance/ Zoloto/ Kirloskar
8	Check Valve (ISI marked)	Audco/ Sant/ Leader/ Advance/ Zoloto/ Kirloskar
9	Foot Valve (Cast Iron / Gun Metal)	Audco/ Sant/ Leader/ Advance/ Zoloto/ Kirloskar
10	Y- Type Strainer	Audco/ Sant/ Leader/ Zoloto/ Kirloskar
11	Fire/ Sprinkler Pump/ Terrace Fire Pump	Kirloskar/KSB/ Grundfos/ Wilo Mather & Platt
12	Electrical Motor	ABB/ Siemens/ Kirloskar/ Grundfos/ Crompton/ NGEF
13	Diesel Engine for fire pump	Cummins India/Ashok Leyland/ KOEL/ Greaves
14	Couplings (Type-Type)	Lovejoy/ Fenner/ Dunlop
15	Anti Vibration Mounting	Kanwal Industrial Corporation/ Dunlop/ GERB/ Resistoflex
16	Pressure Switch (ISI marked)	System Sensor/Indfoss/Danfoss/Switzer/Honeywell Siemens
17	Pressure Guage (ISI marked)	H Guru/ Fiebig/ Dwyer
18	Double/Single Headed Landing Value (ISI marked)	Minimax/ New Age/ Safeguard/ Lifeguard/ Padmini/ Getech
19	Male Female Fire Hose Coupling (SS 304) (ISI marked)	Minimax/ New Age/ Safeguard/ Lifeguard/ Padmini/ Getech
20	First Aid Hose Drum/ Fire Hose reels/ Shut off Nozzle (Gunmetal/ ABS) (ISI marked)/Hose Cabinet	Minimax/ New Age/ Safeguard/ Lifeguard/ Padmini/ Getech
21	SS 304/ Gun metal Branch Pipe & Nozzle (ISI marked)	Minimax/ New Age/ Safeguard/ Lifeguard/ Padmini/ Getech
22	Fireman Axe	Minimax/ New Age/ Safeguard
23	Water Flow Switch (FM/UL listed)	System Sensor/ Rapid Control/ Potter/ Switzer
24	Rust preventive polymeric 4mm thick tape for pipes directly buried in ground pipe protection pypcoat (AW4) wrapping (ISI marked)	Pypcoat/Marphalt/Rustech/Safex
25	Level controller & indicator (water) (ISI marked)	Auto Pump/ Cirrus Engineering/ Techtrol
26	Fire brigade inlet connection (ISI marked)	Minimax/ New Age/ Safeguard/ Lifeguard/ Padmini/ Getech

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27	Thermoplastic pipe for first aid hose reel (ISI marked)	Minimax/ New Age/ Safeguard/ Lifeguard/ Padmini/ Getech
28	Fire Sealent	Promat/ Birla 3M/ Hilti
29	Overload relays	Schneider electric / Larsen & Toubro/ Siemens/ ABB
30	Power/ Aux. Contractor 3 /4 pole	Schneider electric / Legrand/Hager/ LK(FORMERLY L&T)/ABB/ Seimens
31	LED Type Indicating lamps/ Push Button	Schneider electric / LK(FORMERLY L&T)/Siemens/ ABB
32	LT jointing Kit/Termination	Raychem/ denson/ cap seal/ Safekei/ 3M
33	RRL hose pipe (ISI Marked)	Minimax/ New Age/ Safeguard/ Lifeguard/ Padmini/ Getech
34	Dry Battery	Exide/ Amar raja/ HBL/ Pulse/Amco
35	Battery Charger	Statcon/Amar raja/CDC/AE/Expofyn/Thycon India
36	Epoxy Paint	ICI/ Asian/Berger/ Nerolac
37	Air release Valve	Rb/ Tbs/Cimbrio/Zoloto
38	Analogue/digital Measuring Instruments (Voltmeter/Ammeter/ Energy Meter/KW/PF/Multi Function Meter)	AE/Rishabh/LK(FORMERLY L&T)/ Conzerve
39	Aluminium/Copper power Cable/ Control cable (Armoured/ Unarmoured)	Finolex/RR Kable/ KEI/Havells/ Polycab/ Grandlay
40	Cable gland and Lugs	Comet/Dowells/Hex brass(Copper Alloy India)/Jainson/ Action
41	Solenoid Valve/Spray nozzle	Perker / HD / Tyco/Emersion
42	Sprinkler	HD / Tyco/Reliable /Wormald/Viking
43	Sprinkler head/Water Curtain Nozzle	Tyco/Viking/ Newage/Lifeguard
44	Steel Flexible Extension	Newage/Tyco /Lifeguard
45	Vibration Eliminator	Resistoflex/D waren/ Kanwal
46	Welding Electrodes	Advani/ESAB/ LK(FORMERLY L&T)
47	Deluge Valve	Tyco/Viking/HD
48	Cast Iron Valve	Kirloskar/Kartar/kalpana/Joloto/Audco/Advance
49	Fire survival cables	Bonton
50	Fire Hose Cabinet	Minimax/ New Age/ Safeguard/ Lifeguard/ Padmini/ Getech
51	Water Storage Tank	Sintex/Supreme/Prince/Astral
	Fire Alarm System	
1	Manual call box	Notifier/Johnson Control/Honeywell/Siemens/Bosch/ ASES/Agni
2	Strobe lights cum hooter	Notifier/Johnson Control/Honeywell/Siemens/Bosch/ ASES/Agni
3	Fire alarm control panel	Notifier/Johnson Control/Honeywell/Siemens/Bosch/ ASES/Agni
4	Repeater panel	Notifier/Johnson Control/Honeywell/Siemens/Bosch /ASES/Agni
5	Fire detector (combination of optical type smoke detector & ROR type heat Detector)	Notifier/Johnson Control/Honeywell/Siemens/Bosch /ASES/Agni
6	Cat-6 cable, wires & Fiber optic cable	Amp/Avaya/Belden/Legrand/ Molex/ Schneider/Comscope /D-Link
7	Response Indicator	Agni devices/Apollo/System Sensor/ Electro quip
8	Fire Extinguisher (ISI marked)	Lifeguard/Ceasefire/Minimax/Safex

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