



भारत सरकार

**कार्यपालक अभियन्ता एवं वरिष्ठ प्रबन्धक (वै०)–१
बी०एच०यू० परियोजना वाराणसी
केन्द्रीय लोक निर्माण विभाग
बी०एच०यू०, वाराणसी–२२१००५**

e- NIT

**ई–निविदा आमंत्रण सूचना
e-NIT No.: 12/BPED/2026-27**

**Name of work: C/o “Sardar Vallabh Bhai Niryat Suvidha kendra” i/c
Internal EI, Fire fighting System, Fire Alarm system, DG
set & Sub-station at Chunar, Mirzapur, U.P.
(S.H Balance work)**

Estimated Cost: Rs. 39,80,353/-

Assistant Engineer (E)-2
BHU Project Varanasi
C.P.W.D., Varanasi

Executive Engineer & SM (E)-1
BHU Project Varanasi
C.P.W.D., Varanasi

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Certified that this NIT contains **pages 1 to 48 (Excluding covers)** This N.I.T. is approved for **39,80,353.00** (Rupees Thirty Nine Lakhs Eighty Thousand, Three Hundred Fifty Three Only).

CENTRAL PUBLIC WORKS DEPARTMENT
Notice Inviting e-Tender

कार्यपालक अभियन्ता एवं व०प्र० (वै०)—1, बी०एच०यू० परियोजना वाराणसी, केन्द्रीय लोक निर्माण विभाग, बी०एच०यू०, वाराणसी द्वारा भारत के राष्ट्रपति की ओर से केन्द्रीय लोक निर्माण विभाग के **Buildings & Roads** कटेगरी के अनुमोदित एवं पात्र ठेकेदारों से नीचे लिखे कार्य के लिए ऑन-लाइन प्रतिशत दर निविदा आमंत्रित की जाती हैं।

एन०आई०टी०— 12/BPED/2026-27, कार्य का नाम— “C/o “Sardar Vallabh Bhai Niryat Suvidha kendra” i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work)” अनुमानित लागत रु० 39,80,353.00 अग्रिम धनराशि रु० 79,607.00 और समापन अवधि 3 माह, निविदा प्रेषण की अन्तिम तिथि एवं समय 06.07.2026 15.00 बजे तक।

निविदा प्रपत्र तथा संबंधित अन्य जानकारीयें **वैबसाइट—** <https://etender.cpwd.gov.in> पर देखी जा सकती है तथा दिये गये निर्देशानुसार निविदा प्रस्तुत की जा सकती है।

RECEIPT OF DEPOSITION OF ORIGINAL EMD

(Receipt No.#..... / date#.....)

1. Name of Work : **C/o “Sardar Vallabh Bhai Niryat Suvidha kendra” i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work).**
2. NIT No. : 12/BPED/2026-27
3. Estimated Cost: Rs. **39,80,353/-**
4. Amount of Earnest Money Deposit: Rs. 79,607/-
5. Last date of submission of Bid : 06.07.2026

Name of Contractor :#.....

1. Form of EMD#.....
2. Amount of Earnest Money Deposit#.....
3. Date of submission of EMD#

.....

Signature, Name and Designation of EMD
Receiving officer (EE/AE(P)/AE/AAO) alongwith Officer stamp

* To be filled by EE inviting tender.

To be filled by EE receiving EMD.

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PART-A

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING
PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE**

The Executive Engineer & SM (E)-I, BHU Project Varanasi, CPWD, Varanasi on behalf of the President of India invites online percentage rate bids from **CPWD enlisted contractors of appropriate class in Buildings & Roads category** for the following work:

S. No.	NIT NO.	Name of work and location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date and time of submission of bid, original EMD, copy of receipt for deposition of original EMD, other documents as specified in the press notice.	Time & date of opening of tender
1	12/BPED/2026-27	C/o "Sardar Vallabh Bhai Niryat Suvidha kendra" i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work).	Rs. 39,80,353/-	Rs. 79,607/-	3 months	Up to 3:00 pm on 06.07.2026	At 3:30 pm on 06.07.2026

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. 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 **depositing 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 Demand Draft or Pay order or Banker's Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank 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 digital signature of appropriate class and category to submit the bid.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of **JPG** format and **PDF** format.
9. Contractor must ensure to quote percentage rate for the work. The column meant for quoting percentage rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.

If a tenderer does not quote any percentage above/below/at par 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.
10. SC/ST contractors enlisted under class V category are exempted from processing fee payable to ITI Ltd.

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

- (i) Copy of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee of any Commercial Bank against EMD.
- (ii) Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer (including NIT issuing EE/AE) CPWD.
- (iii) Enlistment Order of the Contractor in appropriate class of Buildings & Roads category.
- (iv) Certificate of Registration for GST.
- (v) ERP Training Certificate

Executive Engineer & SM (E)-I
 BHU Project Varanasi
 CPWD, Varanasi

CPWD-6 FOR e-Tendering

Percentage rate bids are invited from CPWD enlisted contractors of appropriate class in Buildings & Roads category for the work of C/o “Sardar Vallabh Bhai Niryat Suvidha Kendra” i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work). The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of bids.

1. The work is estimated to cost **Rs. 39,80,353/-**. This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD 7** 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 **3 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 external site is available. The building for the work will be made available completion of external work by agency. The agency is required to complete the connection work of building in 7 days.
The building is occupied. There will be restricted entry of verified workers due to safety reason. The working hours and days will be restricted as per site condition. Time period for completion is taken as 03 months considering these factors. Hence, extension of time will not be given on these grounds.
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. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **Executive Engineer, BHU Project Division-II, CPWD, Varanasi**) shall be scanned and uploaded to the e-Tendering website by the bidder within the period of bid submission. **A part of earnest money (EM)** is acceptable in the form of bank guarantee also. In such case, **minimum 50%** of earnest money or Rs. 20 lac, whichever is less, **shall** have to be deposited in shape prescribed above, and balance **may be deposited** in shape of Bank Guarantee of any scheduled bank **having validity for six months or more from the last date of receipt of bids** which also is to be scanned and uploaded by the intending bidders. 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 the tender inviting EE in the NIT.
This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.
8. The contractors registered on e-tendering portal of CPWD shall have to deposit at existing rates, or they have option to switch over to the new registration system without tender processing fee any time.

9. The financial bid submitted shall be **opened at 03:30 PM on 06.07.2026**
10. The bid submitted shall become invalid if:
- The bidder is found ineligible.
 - The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
 - The bidder does not upload all the documents (including GST registration) as stipulated in the bid document & the copy of receipt for deposition of original EMD.
 - 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 bidder in the office of bid opening authority.
 - If a tender quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer
11. The contractor whose bid is accepted will be required to furnish **performance guarantee** : *“(a) 5% of the tendered value or Estimated Cost Put to Tender (ECPT) (Whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount”*. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India 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 alongwith bid shall be returned after receiving the aforesaid performance guarantee.** The contractor whose bid is accepted will be also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including provident fund code no. if applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work and Programme Chart (Time and Progress) within the period specified in Schedule F.
12. Description of the work is as follows: **C/o “Sardar Vallabh Bhai Niryat Suvidha kendra” i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work).**

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

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

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the 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 bid for the works shall remain open for acceptance for a period of Thirty (30) days from the date of opening of bids.** If any bidders with draws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes

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any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.

19. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 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** or other Standard C.P.W.D. Form as applicable.

20. For Composite Bids

- 20.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.
- 20.1.2 The financial bid document will include following three components:
- Part A:-** CPWD-6, **CPWD-7** including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2020 as amended/modified up to date.
- Part B:-**General / specific conditions, specifications and schedule of quantities applicable to the work.
- ~~**Part C:-** Schedule A to F for minor component of the work. 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 of the appropriate class eligible to bid for each of the minor component individually as per details given in respective minor component.
- 20.1.4 The eligible bidders shall quote percentage 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 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. EE will operate **Part A** and **Part B** of the agreement.
- 20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- 20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.
- 20.1.8 The main contractor has to associate agency(s) for minor 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 minor component(s) within **prescribed time**. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of minor component(s).

However, the composite category contractor shall also be eligible to carryout himself any or all of these E &M works without associating any specialized agency provided

- a. He fulfils the prescribed eligibility criteria respectively for these work (s)

OR

- b. He directly procures the equipment of approved make from manufacturer and get it installed from authorized agency / service provider of the manufacturer or specialized agency as per criteria mentioned in NIT. Agency will have to submit required declaration, MOU, willingness certificate etc as required for each work in this respect.

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

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

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

20.1.11B. 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.

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

Executive Engineer & SM (E)-I
BHU Project Varanasi
CPWD, Varanasi

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MEMORANDUM OF UNDERSTANDING

Memorandum of association (MOU) between m/s And m/s (specialized agency) for successful performance of the contract is Signed for the following work

Name of wor : C/o “Sardar Vallabh Bhai Niryat Suvidha kendra” i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work).

NIT NO:/BPED/2026-27

This MEMORANDUM OF UNDERSTANDING is executed on(date)..... between M/sa hereinafter called as “Main Agency” (which expression shall include its successor, administrators Executors, and permitted assigns)

and

M/s(Specialized Agency)..... , a Company/OEM/Authorized dealer having its Registered Office at , hereinafter called as “Specialized Agency” (which expression shall include its successor, administrators Executors, and permitted assigns) to submit a bid and enter into a Contract (in case of award) against this Bid document invited by CPWD.

With the requirements of the Bid criteria as stipulated in the Bid documents, This MOU is hereby created and signed as per the terms and conditions given below:

1. That all the responsibilities and obligations of each of the Members delineated in this MOU are expressly understood and agreed between the Members.
2. That the main agency only will deal with CPWD on all matters about this work.
3. The main agency shall be solely and severally responsible for the performance of the entire contract.
4. MOU shall be valid during the entire currency of the contract including the period of extension, if any. Both the Members of the MOU shall remain associated with the project till completion of the project.
5. There shall be significant technical contributions of both the Members for the project. Even after completion of the project, the Specialized Agency shall continue to associate for defect liabilities, operation and maintenance.
6. After signing of MOU it shall not be modified/alterd/terminated during the validity of the tender or extended period of tender.
7. The MOU Members will be fully governed by the terms and conditions of the contract and shall be responsible for the quality of all the Works and timely execution thereof to meet the completion schedule under the contract.
8. This MOU shall be construed and interpreted under the Laws of India and the respective Courts of India shall have exclusive jurisdiction to adjudicate upon the disputes between the parties.
9. We, the MOU Members agree that this Association shall be irrevocable and shall form an integral part of the Contract. We further agree that this Agreement shall continue to be enforceable till the successful completion of the Contract or decided otherwise by CPWD for any reason.

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10. In exceptional circumstances, the main agency shall have the right to change the specialized agency having similar credentials with the approval of CPWD.

11 . That this Agreement shall be operative from the effective date of signing of MOU.

For M/s (Main Bidder) F

or M/s (Specialized Agency)

Witness:

1.

2.

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

- (A) Tender for the work of: **C/o “Sardar Vallabh Bhai Niryat Suvidha kendra” i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work).**
- (i) To be uploaded by **3:00 PM on 06.07.2026** at www.etender.cpwd.gov.in
- (ii) To be opened in presence of tenderers who may be present at **03:30 PM on 06.07.2026** in the office of **The Executive Engineer & SM (E)-I, BHU Project Varanasi, C.P.W.D., Varanasi.**

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 (30) days** from the due date of its opening and not to make any modification in its terms and conditions.

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

A copy of earnest money deposit receipt of prescribed amount deposited in the form of **Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed)** issued by a **Commercial Bank**, is scanned and uploaded (**strike out as the case may be**). If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said

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

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

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

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

Dated

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

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 (as per PWD-3) (Attached)

SCHEDULE 'D'

Extra schedule for specific requirements/document for **As attached in tender form** the work, if any.

SCHEDULE 'E'

Reference to General Conditions of contract – General Conditions of contract 2023 Construction Work of CPWD amended up to date of submission of bid.

Name of Work: C/o “Sardar Vallabh Bhai Niryat Suvidha kendra” i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work).		
Estimated cost of the work:		39,80,353/-
Earnest money	79,607/- (To be returned after receiving performance guarantee)	
Performance Guarantee	(a) 5% of the tendered value or Estimated Cost Put to Tender (ECPT) (Whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.	
Note: The performance guarantee shall be refunded at the expiry of 6 months after the record of final completion certificate, or after handing over of the buildings to the client / BHU, whichever is earlier. (This is in supersession of GCC condition in this regard.)		
Security Deposit	2.5% of the tendered value of the work	
Note: The defect liability period shall be 03 years (as against one year period provided in General Conditions of Contract). The security deposit of the contractor shall be refunded in following manner: a) 1 st instalment- 1/3 at the expiry of one year after the issue of completion certificate (final or otherwise) or the handing over of the completed buildings to the client/ BHU, whichever is later. b) 2nd instalment balance- 1/3 at the expiry of two years after the issue of completion certificate (final or otherwise). c) 3rd instalment balance- 1/3 at the expiry of three years after the issue of completion certificate (final or otherwise).		

Definitions:

C
I
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EE&SM

Authority to decide

(i) Extension of time	Executive Engineer & SM (Elect.)-I, BHU Project Varanasi, C.P.W.D., Varanasi or his successor thereof
(ii) Rescheduling of mile stone	Chief Engineer Cum Executive Director, BHU Project Varanasi, C.P.W.D., Varanasi or his successor thereof
(iii) Shifting of date of start in case of delay in handing over of site	CE cum ED, BHU Project Varanasi, CPWD, Varanasi or his successor thereof

SCHEDULE OF HANDING OVER OF SITE

Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of intent
Part-A	Portion without any hindrance	Terrace and external site	At the time of date of start
Part-B	Portions with encumbrances	Building	The building will be made available in phased manner.
Part-C	Portions dependent on work of other agencies	Nil	N.A.
The external site is available. The building for the work will be made available after completion of external work by the agency. The agency is required to complete the connection work of building in 7 days. The building is occupied. There will be restricted entry of verified workers due to safety reason. The working hours and days will be restricted as per site condition. Time period for completion is taken as 06 months considering these factors. Hence, extension of time will not be given on these grounds.			
Clause 6	EMB (Electronic Measurement Book)		
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.	10 lacs or as per mutual agreement	

Clause 7A	Whether Clause 7A shall be applicable	<p>Yes</p> <p>(a) No running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whether applicable are submitted by the contractor to the Engineer-in-Charge.</p> <p>(b) The following documents shall also be part of the bill submitted by the contractor (these documents shall be owned by the contractor) before making payment:-</p> <ol style="list-style-type: none"> 1. Details of person employed with date of their employment up to previous month. 2. Documents of payment made to the employees directly into their bank accounts up to previous month. 3. Documents of attendance through biometric attendance or other mode up to previous month. 4. Documents of deposition of EPF and ESI deductions in the employee's accounts up to previous month. 5. Any penalty imposed on the agency for delay in disbursing payment and deposition of EPF and ESI deductions in the employee's accounts up to previous month. 6. Any other document(s) required as per statutory requirements and/or as directed by Engineer-in-Charge. <p>(c) In case, any of the documents submitted by the contractor is found false/forged at a later date, action for debarment of contractor will be taken by the SE/CE concerned.</p>
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Clause 8A	Authority to decide Compensation on account, if contractor fails to submit completion plans	CE cum ED, BHU Project Varanasi, CPWD, Varanasi or his successor thereof
Clause 10A	List of testing equipment to be provided by the contractor at site lab.	NA
Clause 10 B (ii)& 10B (iii)	Whether clause 10-B (ii) shall be applicable. Whether clause 10-B (iii) shall be applicable.	No
Clause 10 C	Component of labour expressed as percentage of value of work	Not Applicable
Clause 10 CC	Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	Not Applicable
	Schedule of component of other Materials, Labour, POL etc. for price escalation	
	Component of civil (except materials covered under clause 10CA) /Electrical construction Materials expressed as percent of total value of work – Xm	
	Component of Labour expressed as percent of total value of work – Y	
	Component of P.O.L. expressed as percent of total value of work - Z	

Clause 11	Specification to be followed for execution of work:	
For Electrical items of work	<p>Electrical work :</p> <p>CPWD General Specification for Part-I Electrical Internal EI 2023.</p> <p>CPWD General Specification for Part-II, External EI 2023.</p> <p>CPWD General Specification for Heating, Ventilation & Air-Conditioning (HVAC) 2024</p> <p>(i) All above specifications shall be applicable with corrections slips up to the previous date of the last date of submission of bids.</p> <p>(ii) Wherever the CPWD Specification are not given, the works shall be executed as per the additional Specification and terms & conditions mentioned in the NIT.</p> <p>(iii) The direction of the Engineer-in-charge shall be followed in absence of the above two at Serial No I & II.</p>	
Clause 12		
Type of work	Construction Work	
12.2	Deviation limit beyond which clause 12.2 (c) shall apply for building work.	100%
12.5	i) Deviation limit beyond which clause 12.2 (c) shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items)	100%
	ii) Deviation limit for items mentioned in earth work subhead of DSR and related items	100%
Clause 16	Competent Authority for Deciding reduced rates:	
		CE cum ED, BHU Project Varanasi, CPWD, Varanasi or his successor thereof
	For Electrical items of work	
Clause 17	Contractor Liable for Damages, defects during defect liability Period	Defect liability period shall be 12 months (against one year period specified in clause 17 of General condition of contract for construction works 2023).
Clause 18	List of mandatory machinery, tools & plants to be deployed by the contractor at site.	As per annexure -I on page no 27

Clause 19C, 19D, 19G & 19K	Authority to decide penalty for each default	Chief Engineer cum Executive Director, BHU Project, CPWD, Varanasi or successor thereof
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Clause 25

Conciliator	Additional Director General, Lucknow, CPWD
Arbitrator Appointing Authority	Chief Engineer cum Executive Director, BHU Project, CPWD, Varanasi or successor thereof
Place of Arbitration	Varanasi

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

Sl. No. cost of work (Rs. in Crore)	Requirement of Technical staff		Minimum experience (Years)	Designation of Technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
	Qualification	Number (of Major + Minor Component)			Figures	Words
More than 15 lacs to 1.5 crore	Graduate Engineer Or Diploma Engineer	1 of major component	2 Or 5 respectively	Project Manager cum Planning/ Quality/Site/ billing Engineer	Rs. 15,000/- per month	Rs. Fifteen Thousand per month

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

Clause 38**Not Applicable**

Mile stones of the Contract

Sl. No.	Description of mile stone	Period for completion from date of start in months	Withheld amount for non achievement of mile stone.
1	<ul style="list-style-type: none"> Submission of MOU of associate agency. Submission of shop drawings and technical data sheet of materials for approval. 	15 Month	1% of the accepted tendered value.
2	<ul style="list-style-type: none"> Supply of Internal & External EI material and ACs materials. Construction of overhead tank. <p>OR</p> <p>Gross value of work done not less than 60 % of excepted tender value.</p>	1.5 Months	1% of the accepted tendered value.
3	<ul style="list-style-type: none"> Installation of All materials. <p>OR</p> <p>Gross value of work done not less than 80 % of excepted tender value.</p>	2.5 Months	1% of the accepted tendered value.
4	<ul style="list-style-type: none"> Completion of whole work i/c testing & commissioning of equipments i/c handing over to client department. <p>OR</p> <p>Gross value of work done not less than 100 % of excepted tender value.</p>	3 Months	1% of the accepted tendered value.

PART- B

Eligibility Criteria for Specilized E&M Agency to be associated by the main Agency

Sl. No.	Description/ Type of work	The firm should be	Estimated cost (Rs)	Remarks
1	2	3	4	5
1.	Internal / External Electrical Installation	Enlisted in appropriate Class & category in CPWD	Rs. 37,38,729/-	The firm should submit details of enlistment and valid Electrical Licence as reqd. for approval.
2.	LAN Networking System	Firm should fulfill criteria of similar works for specialized agency as per SOP.	Rs. 2,11,624/-	Main agency should submit its own experience of similar work or associate a specialized agency having similar work experience

ANNEXURE-1**Clause- 10 –A & 18**

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

1	Steel/ Aluminum Ladder 1.5 m to 8 m.	As per requirement
2	Chase cutting machines.	
3	Electrical wire drawing equipment.	
4	Torque wrench for nut/bolt/screws.	
5	Conduit die set.	
6	Pipe vice.	
7	Bench vice.	
8	L.T. Meggar 500/1000 volts.	
9	Tong Tester.	
10	Multimeter.	
11	Hydraulically operated & hand operated crimping machine.	
12	Earth tester.	
13	Portable Ordinary drilling machine.	
14	Portable Hammer drilling machine.	
15	Overhead conduit puller.	

ADDITIONAL CONDITIONS

1. The work shall be carried out strictly in accordance with CPWD General Specification 2023 (Part-I) Internal, 2023 for External amended up to date.
 - a) All materials along with cat/model no & technical details shall be got approved from Engineer-in-Charge before use at site.
 - b) All hardware items such as screws, thimbles, G.I. wires, cable tag etc... which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned. All hardware materials such as nuts/bolts/screws/washers etc... to be used in the work shall be zinc/cadmium plated iron.
2. **CONDUIT LAYOUT** shall be prepared by contractor and got approved before execution of work with Minimum No. of junctions.
3. Shop drawing will be provided by main contractor/ associated agency for all E&M Services, nothing extra will be paid for this.
4. In case of existing services (LT cable, OFC/ Roof top solar panels etc...) at the site, removal/ shifting of the same will be done by contractor/ agency and payment will be done accordingly.
5. **Insurance and Storage** -: All consignments are to be duly insured upto the destination from warehouse at the cost of the contractor. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.
6. All the material to be used on this work by the contractor shall be approved from the Engineer in-Charge in advance before installation at the site.
7. The contractor shall initially submit the drawing/sketch/layout of the proposed work to EIC, which shall be approved by EIC after due examination. The contractor shall then start the work as per approved layout.
8. All damages done to the building during the execution of electrical work shall be the responsibility of the contractor and the same will be made good immediately at his own cost to the satisfaction of the Engineer-in-Charge. In case, the repair is not satisfactory, the department will get it rectified & any expenditure incurred by the department in this condition shall be recovered from the contractor and decision of the Engineer-in-charge about recovery shall be final & binding on the contractor.
9. The bad workmanship will not be accepted and defects shall be rectified at contractor's cost to the satisfaction of the Engineer-in-Charge. The program of electrical works is to be coordinated in accordance with occupants of the building as well as with civil works.
10. All the debris of the electrical works should be removed and the site should be cleared by the contractor immediately after the accruing of debris daily. Similarly, any rejected material should be immediately cleared off from the site by the contractor.
11. The contractor or his engineer is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
12. The contractor shall make his own arrangement at his own cost for Electrical/ General tools and plants required for the work.
13. The rates tendered should be inclusive all taxes and duties. Statutory deductions at source shall be made while releasing payment through running/final bills as applicable. A certificate specifying the rate and amount of deduction shall however issue by the department.

14. The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. The watch & ward is the responsibility of the contractor till handing over. In case of any loss due to theft, the same shall be made good by the contractor on its own expenses
15. Notwithstanding the schedule of quantities, all items of interrelated works considered necessary to make the installation complete and operative are deemed to be included, shall be provided by the contractor at no extra cost.
16. The connection, inter connection, earthing and inter earthing shall be done by the contractor wherever required and nothing extra shall be paid on this account.
17. Nothing extra shall be paid for inter connections with thimbles/Wires/Tapes strips etc.. used on the work.
18. The wiring and conduit route shall be marked by the contractor in the drawing first, and shall be got approved from the Engineer-in-charge.
19. The contractor shall on demand by the Engineer-in-charge, furnish the proof to the satisfaction of Engineer-in-charge regarding purchase of Wires, Modular switches & accessories, MCBs MCBDB, MCCB, LED fitting and accessories and other items, from the manufactures authorized outlets.
20. Cutting of brick walls shall be done with due care. All repairs and patch works shall be neatly carried out to match the original finish and to the entire satisfaction of the Engineer in Charge.
21. All the sub main and circuits wiring includes loose wire for connections inside switch boxes and MCB DBs. No payment for these loose wires shall be made.
22. The connection between incoming switch/isolator and bus bar shall be made with suitable size of thimble and cable at no extra cost.
23. All hardware items such as screws, thimbles, GI wire etc.. which are essentially required for completing an item as per specification will be deemed to be included in the item even when the same have not been specifically mentioned.
24. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring for some other agency subsequently. Nothing extra shall be paid for the same.
25. While laying conduit, suitable size junction boxes shall be provided for pulling the wire as per the decision of the Engineer-in-Charge.
25. The make of the materials have been indicated in the list of preferred makes. No other makes will be acceptable. The materials to be used in the work shall be got approved by the Engineer in Charge/his representative before its use at site. The E-in-C shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not acceptable.
26. Where switches/sockets/regulator/telephone/TV/internet outlets are to be provided, the same shall be of only one make.
27. The Contractor shall offer for factory inspection for any Electrical equipment/material having value more than 15.00 lacs.
28. The charges for testing of material will be borne by the agency and the testing should be conducted for each material as per the CPWD specification and the direction of Engineer in Charge.
29. In case of any discrepancy/Non availability about the availability of material of requisite specification/size/design as per BOQ the same shall be brought to the notice the deptt. within one week from the publication of bid , otherwise it shall be deemed that the Agency has no objection about the size/design/ specification of the material as depicted in the BOQ In that case, the item of higher/better specification/size shall be provided during execution without any extra cost and without alteration of the functional requirement

30. All the material viz. CSS, DG set, substation panel/HVAC panel, fire alarm system etc shall be BMS compatible.
31. If the material specified in the BOQ become non available due to technology advancement or otherwise then the product of better specifications shall be accepted provide there is no functional change of requirement without any extra cost.
32. In case of any discrepancy in the size of the items elaborated in the BOQ , the material of next higher size available in the market to that of the size specified in the BOQ shall be provided without any extra cost
33. No drawing/technical submittal shall be accepted through email. Hard copy of drawings duly signed by Contractor's Engineer will only be approved
34. Contractor shall be fully responsible for shifting of services encountered at site like electrical lines/power cables/ telephone, tv, data cables/electric poles/light poles/feeder pillar (whether energized or not)/dismantling and handing over such material to department. For shifting of such services including dismantling of such material required for smooth working at site
35. Contractor shall get approval of Makes & Models of material before their use at site. The technical specifications / catalogue shall also be submitted along with submission for approval. In case unapproved material is found to be used /installed at site or kept at site store for installation, department shall not only confiscate such material but also be at liberty to recover cost for removal of material from site from contractors bill.
36. All the connectors, equipment, controller shall be of the same Make.
37. It is stipulated in the NITs of Specialized E&M original Works and other original E&M Works, where ever required, that the lowest tenderer is submit, along with the performance guarantee after the acceptance of tender, an undertaking from the OEM regarding :
- (a) Authorization certificate.
- (b) The OEM is unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Maintenance/ Comprehensive Maintenance Contract for the useful life of the system, and
- (c) OEM provides all the spares required for healthy functioning of the equipment for at least seven years from the date of supply of equipment..
38. **Payment Terms:-** The Following percentage of contract rates shall be payable against the stages of work shown herein:

S. No.	Stage of work	All E&M items
I.	After initial inspection (wherever specified) and delivery at site in good condition on pro-rata basis.	60%
II.	On completion of pro-rata installation	20%
III.	On testing, Commissioning and handing over.	20%

List of approved makes

S.No.	Details of Materials/Equipment	Manufacturer's name/make
	I.E.I, MCBDB & MCB, Cables and Wires	
1	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO's.	Schneider Electric ACTI-9/ Legrand(DX3)/L&T(Au) (Exora)/Siemens(Betagard)/ABB(SB200M)/Hager.
2	MCBDB & Loose Wire Box.	Legrand (EKINOX3)/ Schneider Electric ACTI-9 /ABB (ITUS)/Siemens (Simbox63)/Hager/L&T(Exora)
3	Change Over Switch.	L&T/Havells/HPL/C&S/Legrand/ABB/Hager
4	Automatic Transfer switch(ATS)	Cummins/Asco/Russelectric/ABB/L&T/GE/Socomac
5	FRLS PVC insulated copper conductor single core cable for wiring (ISI marked).	Finolex/RR Kabel/ Havells/Poly cab
6	Armoured/Unarmoured telephone cable and Co-axial cable	Delton/Finolex/RR Kable/Bonton/ Havells
7	MS Conduit (ISI Marked) with Heavy Duty MS conduit pipe Accessories.	BEC/NIC/AKG/RMCON/Steel Kraits
		Note:- All Ms conduit pipe accessories will be same make as 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
9	Modular switch, socket/Telephone socket/cable TV socket/Data outlet socket/fan Regulator/GI Boxes and cover plate, blanking plate, Modular MCB etc.	Legrand (Arteor)/Schneider Electric (Zencelo)/Honeywell (ORNA)/Wipro (North West Platia)Hager (Insysta)/Havells (Murano)/L&T (Englaze)
10	PVC Trunking	MK(Honeywell)/Legrand/ Schneider/Hager.
11	G.I/MS pipe	Tata/Jindal(Hissar)/Prakash Surya
12	Synthetic enamel paint	ICI Dulux/Asian/Nerolac
13	Terminal Blocks and Connectors	Elmex/Wago/Hensel/Connectwell/Essen/L&T
14	Phenolic Laminated Sheet/Bakelite Sheet	Hylam/Formica/Greenlam/Mylam
15	Cat-6 Cable/Wire & Fiber Optic Cable/CAT 6A	Amp/Avaya/Belden/Legrand/Delton/Molex/
16	XLPE insulated PVC sheathed Al./Copper Conductor Armoured/Unarmoured cable of 1.1 KV grade.	Finolex/RR Kable/ Havells/Polycab
17	GI/Copper Strip and Earthing material	Bharti/Indiana/Slotco
18	Chemical Earthing	JMV LPSLtd./PragatiElectrocom/Ecosafe/Duval Messien(Terec)
19	Occupancy Sensor/Lighting Control System	Philips/Schneider/Legrand/Siemens
	Fan & Fittings, Street Lights	
20	LED fittings	Philips/ Havells/Lighting Technology/ Wipro/Osram/ Panasonic
21	Exhaust Fan/Fresh Air Fan	Havells/ Usha/Almonard/ Orient/Crompton
22	Ceiling Fan	Havells /Usha/Orient/Crompton
23	Wall Bracket Fitting(LED)	Havells/Philips/Jaquar/LT/Regent

24	Lamp/Fluorescent tubes/T5 Fluorescent tubes/LED lamp	Philips/Osram/Havells/ Regent
25	Geysers	Havells /Jaquar/AO Smith/Usha/Racold
26	LED Post Top fitting/street light fitting	Havells/ /Philips / KeselecSchreder/ Lighting Technology/ Osram/ Schneider Electric/ L&T/Regent
27	LED street lights with inbuilt Solar panel and controller	Havells/ /Philips / KeselecSchreder/ Lighting Technology/ Osram/ Siemens/C&S/Vaishno/Regent
28	Ornamental M.S & CI Pole(Factory Finish)	KeselecSchreder/ Valmont/ Philips/ Wipro/ Crompton greaves/ Bajaj/Transrail
29	Hot Dipped Galvanized Octagonal Pole(Factory Finish)	Crompton Greaves/Phillips/Valmont/Bajaj/ Wipro/Transrail/Havells
30	Polycarbonate Junction Box/Enclosure	Hensel/Spelsberg/Naptune-Bals/Sintex
31	High Mast Pole	Bajaj/ Crompton/ Valmont
	Substation and DG sets	
32	LT panel/Meter panel Board/Outdoor Feeder Pillar/APFC panel(less than 200KVAR)/Bus Duct	Tricolite Electrical Industries/Control & Switchgears Pvt. Ltd./Milestone/Adlec Power Pvt.Ltd./Advance Panels & Switchgear Pvt.Ltd. /Schneider/L&T/Siemens/ Sterling & Wilson/Engineers & Engineers/ Precision System control/Neptune/ Conquent/ SPC/Application Control/Johns panel/Mile stone/Excel Control System /AlliedEngineers
33	LT panel (TTA Type)	L & T (Model - TERA)/Schneider (Model - Block Set)/ABB(Model - ArTu K)/Siemens(Model- Siepan 8PU)
34	Air insulated rising main	C&S/L&T/Schneider/Legrand//Godrej
35	Sandwich type bus trunking	C&S/L&T/Schneider/Legrand/ Godrej
36	Moulded Case Circuit Breaker (MCCB) Thermal Release/ Microprocessor based(Ics=Icu=100%)	Schneider Electric (NSx Series)/Siemens (VL Series)/L&T(Dsine)/Legrand(DPX3)/ABB(TMAX)
37	Power/Aux. Contactor 3/4 pole	Schneider /L&T/BCH/Siemens/Legrand/ABB
38	Potential Transformers/Current Transformer	Automatic Electric/Gilbert & Maxwell/L&T/Kappa/
39	LED type, Indicating Lamps/Push Button.	Schneider/ABB/L&T/Siemens/Vaishno/C&S
40	Overload relays with built in Single Phase Preventer	Schneider Electric /L&T /Siemens /ABB /C&S /BCH/Legrand
41	Conventional/Electronic Digital Meters(A/V/PF/Hz/KW/KWH)	Conzerv/L&T/Secure/AE/Siemens/ Schneider/ABB
42	Timer	Siemens/L&T/Legrand/ABB/Schneider Electric/BCH/C&S
43	Fasteners/ GI clamp	Hilti/Fischer/Canon /Wurth
44	D.W. Corrugated HDPE Pipe(ISI marked)	REX/Tirupati/Supreme/Jain Irrigation/
45	Transformer(Oil/Dry type)	ABB/Schneider/Siemens/Areva/ VOLTAMP/ Crompton/ Kirloskar
46	HT Panel/Ring Main Unit	Siemens/ABB/L&T/Schneider/ Crompton
47	HT Cable Armoured (ISI Marked).	CCI/Polycab /Universal/NICCO/KEI/ Finolex/ Havells/RR Cable
48	HT End Termination/ Cable jointing kit	Raychem/Denson/Cabseal/Safekit/3M
49	ACBs(with display)	Siemens (Sentron 3 WL)/L&T(U-Power-OMEGA)/ ABB (E maxt 2 / Schneider Electric (Masterpact NW6.0A)/Legrand(DMX-3MP4)
50	Rubber Mat and Electrical Gloves	Raychem/Honeywell

51	Digital multifunction meter	Conzerv/Siemens/Schenider/Legrand/L&T/ C&S
52	Fire Extinguisher (All types)	Minimax/Safex /Ceasefire/Tyco/ Kanex
53	Capacitor & Reactors/APFC Relay	EPCOS/L&T/DUCATI/ABB/siemens/Schneider/Legrand
54	Cable Glands Double Compression with earthing links	Baliga Lighting/Comet/Cosmos/Dowell's/Gripwell/Raychem
55	Bimetallic Cable Lug/Thimble	Comet /Dowell's/Hax Brass(Copper Alloy India)/Schneider/Jainson/Action
56	MS/GI cable tray	Schneider/Legrand/MK(Honeywell)/Pilco/slotco/pasco/MEM/ BEC/ steelways
57	Programmable logic controller(PLC)	Siemens/L&T/ABB/Allen Bradley
58	Selector Switch & Toggle switch	Salzer (L&T)/Siemens/Kaycee/Rishabh/ABB/Legrand/Schneider
59	DC Power pack Unit	Statcon/Amara Raja/HBL/Thycon India
60	SMF Battery	Exide/Amara Raja/HBL/Amco
61	IDMT Overcurrent and Earthfault Relay	Areva/L&T/Siemens/Schneider/ABB
62	UPS(Online/Offline)	Numeric/Eaton/APC/Vertiv/Mitsubishi/Delta/ABB
	DG Set	
63	Diesel Engine	Cummins India/Caterpillar/Mitsubishi/ Kirloskar/Volvo Penta/Perkins
64	Alternator	Stamford/Leroy Somer/Kirloskar Electric/Caterpillar
65	DG Set Canopy/ Enclosure & AMF Panel	As per OEM/OEA of respective DG Set manufacturer or AMF as per approved makes of LT Panel.
66	Alarm Annunciator	L&T/Minilec/Selec
67	Lead acid Battery	Exide/Amara Raja/HBL/Pulse/Amco/Panasonic
	Water Supply Pump Sets	
68	Mono Submersible Pump Set	KSB /Grundfoss/ Kirloskar/CG/Crompton
69	Submersible Pump Set	KSB/Kirloskar/Grundfoss/CG
70	Sluice Valve / Check Valve/ Butterfly valve/ Non Return Valve	Advance/Kirloskar/Sant/Leader/Zoloto/ Audco
71	Submersible Cable	Finolex/ RR Kabel/Universal/ Polycab/ Nicco/KEI
	Fire Fighting System	
72	Forged Steel Fittings/Flanges	Johnson/ VS Forge/JK Forging/Trueforge/Indus/Jainsons
73	Forged steel fittings/flanges (for welding joints)	VS Forge/Kanwal Forge/Johnson/Trueforge
74	Fasteners	Hilti/Fischer/Canon/Wurth
75	Pipe Hangers/Clamp/Supports	Hilti/Fischer/Euroclamp/GMGR/ Wurth/Chilli
76	Gun Metal/Brass Valve(ISI marked)(Ball valve/Gate Valve/Globe valve/Non Return valve/Foot valve)	Sant/ Leader/Advance/Zoloto /Kirloskar /L&T/Audco
77	C.I Butterfly/Sluice Valve/NRV/Foot Valve(ISI marked)	Advance/Kirloskar/Sant/Leader/Zoloto/ Audco
78	Y type Strainer	Emerald/RapidCool/Sant/Leader/Zoloto/Audco/Kirloskar
79	Fire/Sprinkler Pump/Terrace Fire Pump	Kirloskar/KSB/Grundfos/Wilo Mather & Platt / Armstrong / Xylem ITT/Crompton
80	Electrical Motor	ABB / Siemens / Kirloskar / Grundfos / NGEF / Crompton Greaves
81	Diesel Engine for Fire Pump	Kirloskar/Caterpillar/Cummins/ Volvo Penta/ Perkins/Greaves/KOEL/Ashok Layland
82	Couplings (Tyre- Type)	Lovejoy/ Fenner/Dunlop

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83	Anti Vibration Mounting	Kanwal Industries Corporation / Dunlop/ Resistoflex
84	Pressure switch(ISI marked)	System Sensor / Indfoss/ Danfoss/ Switzer/ Honey Well/Potter/Siemens
85	Pressure Gauge(ISI marked)	H Guru / Fiebig / Dwyer/ HD
86	Fire Hydrant valves/Fire RRL Hose pipe/ Fire Hose Reel/Fire Man's Axe/Gun Metal or SS Branch pipe/FB inlet/Draw out connection/Hose Box/Hose reel Drum/ Nozzle/ Coupling	Minimax/ New Age / Ceasefire/ Padmini / Tyco/Superex/Life Guard
87	Water Flow Switch(FM/UL listed)	System Sensor / Switzer/ Rapid Control / Potter /Honey Well/Tyco
88	Coal Tar based polymeric anti-corrosion tape	Pypkote (IWL India Ltd.)/Makphalt/ Rustech
89	Level Controller & Indicator (Water)	Schneider / Danfoss/ Teknika/ Minilec/Auto pump/Techtrol/Cirrus Engineering
90	Fire Sealant	Fischer / 3M/ Hilti /Raven/Wurth
91	Overload relays with inbuilt single phase preventer	Schneider/L&T/Siemens/ABB/C&S/BCH/ Legrand
92	Power/Aux. contractor 3/4 pole	Schneider/L&T/BCH/Siemens/Legrand/ ABB/C&S
93	LED Type indicating lamps/Push button	Schneider/ABB/L&T/Siemens/Vaishno/ C&S
94	LT Jointing Kit	Raychem/Denson/Cab Seal/3M/Safekit
95	Lead acid Battery	Exide/Amara Raja/ HBL/Pulse /Amco / Panasonic
96	Battery Charger	Statcon/Amara Raja/HBL/Thycon India/CDC/AE/Expofyn
97	Air Release valve	Zoloto/Advance/Leader/Arco/Sant/Rb/Tbs/Cimbrio
98	Conventional/Electronic Digital Meters(A/V/PF/Hz/KW/KWH)	Conzerv/L&T/Secure/AE/Siemens/ Schneider
99	Solenoid Valve/Spray Nozzle	Parker/HD/Tyco/Emerson/Honey Well /Danfoss
100	Sprinkler Heads QB type(Side wall/upright/pendant)	HD/Tyco/Reliable/Wormald/Viking/Omex/Newage/Lifeguard
101	Water Curtain Nozzle	Tyco/Viking/Newage/HD/Life guard
102	Steel Flexible Extension	Newage/Tyco/Viking/Safex/Easyflex/Life guard
103	Vibration Eliminator	Resistoflex/D wren/Kanwal
104	Welding Electrodes	Ador (Advani) /ESAB/L&T/Victor
105	Deluge Valve	Tyco/Viking/HD
106	Fire Buckets with Stand	Safex/Minimax/Lifeguard/Padmini/Omex/ Superex
107	Fire Suppression System / Gas Flooding System	Tyco / Newage / Minimax / Viking / Ceasefire
108	Fire Extinguisher (All types)	Minimax/New Age/Safex/Ever Safe/Ceasefire/Tyco/Life guard/Andex/Omex/Kanex
109	Cable Glands Double Compression with earthing links	Baliga Lighting /Comet /Cosmos /Dowell's /Gripwell/ Raychem
110	Bimetallic Cable Lug/Thimble	Comet /Dowell's/Hax Brass(Copper Alloy India)/Schneider
	Fire Alarm System	

111	Intelligent Addressable Fire Alarm Panel /Detectors/Hooter/Manual Call Point/Talk back/Control Module/Monitor Module/ Control Relay module / Fault isolator / Repeater panel / Response indicator	Honey well /Notifier / Johnson Control / Bosch/ Siemens / Edward/GST/APPOLO
112	Fire Survival Cable	Tyco/ Bonton / Lapp/Polycab
113	PA Amplifier / Speaker / Microphone	Bosch / Philips / Bose / Honeywell/AKG/Ahuja/Ateis
114	SMF Battery	Exide/Amara Raja/HBL/Amco
	HVAC	
115	Split Air conditioner	Mitshubshi Electric/Mitshubshi Heavy Industries/ O General /Daikin /Hitachi /Carrier/Toshiba/LG
116	Window type Air Conditioner	Mitshubshi Electric/Mitshubshi Heavy Industries/ O General /Daikin /Hitachi /Carrier/Toshiba/LG
117	Voltage Stabilizer	V Guard / Blue Bird / Voltas
118	VRV A.C (Outdoor/Indoor/Remote Control/Y Joint)	Daikin / Hitachi/ Mitshubishi Electric/O General/Carrier/Blue Star/LG
119	Copper Refrigerant Piping	Rajco / Mandev / Totaline/Kwality Tubes/Shree Shyam
120	Nitrile Rubber Insulation (For Duct / Drain Pipe / Refrigerant Pipe Insulation)	Armaflex/Aeroflex/K Flex
121	UPVC drain pipe	Supreme/Finolex/Astral/Ashirvad
122	Multicore Copper flexible Cable	Finolex/Polycab/RR Kabel/KEI
123	Two way pressure independent balancing & control valve	Siemens/Danfoss/Belimo
124	Adhesive for insulation	Pidilite/Superlon/Armacell
125	GI/GSS Sheet for ducting	Tata/SAIL/Jindal Hissar
126	Auto air vent	Zoloto/Rapid cool/Emerald/Cimberio
127	Air Handling Unit with coil	Zeco/Edgetech/Flaktwood/VTS/Systemair
128	Air Washer	Zeco/Edgetech/Flaktwood/ Humidin/Symphony
129	Axial flow/Centrifugal Fan	Kruger/Greenheck/Wolter/Nicotra/Systemair/ Comefri
130	Balancing Valve	Advance/L&T/Honeywell/Danfoss/Belimo
131	Dash Fasteners	Canon / Fischer /Hilti/Wurth
132	Variable Pumping System	Grundfos/Armstrong/Xylem ITT/ wilo/ Kirloskar
133	Chilled/Hot water circulation and Condenser water pump	Grundfos/Armstrong/Xylem ITT/wilo/Kirloskar
134	Electric Motor	ABB / Siemens / Kirloskar / Grundfos / NGEF / Crompton Greaves
135	CPRX Compound/Tar Felt	Shalimar Tar Product/Asian/Pidilite
136	Programmable logic controller(PLC)	Siemens/L&T/ABB/Allen Bradley
137	Duct damper/Grills/Diffuser/VCD/Collar damper	Caryaire/Systemair/Dynacraft/Airflow
138	Factory fabricated duct & flanges	Rolastar/Zeco/Ductofab/Technofab
139	Fan coil unit with fan	Daikin/Carrier/Johnson Control/Flaktwood/VTS/Hitachi/Mitsubishi
140	Filters(Pre/Hepa/BIBO)	Thermodyne/Spectrum/Camfil/American Air Filter
141	Fire damper actuator	Belimo/Siemens/Danfoss/Honeywell
142	Fire and Smoke dampers	Greenheck/Systemair/Airflow/Caryaire

143	Flexible duct connection	Airflow/Rolastar/UP Twiga/Caryaire/Atco
144	Flexible pipe connection	Resistoflex/Easyflex/Diamond/Dunlop
145	Hot water Generator/Humidifier	KEPL/Rapidcool/Emerald/Enmax
146	Inline fan	Kruger/Nicotra/Greenheck/Wolter/Airflow/ Systemair
147	Fiber glass Aluminium faced insulation	UP Twiga/ Owens Corning/ Kimmco
148	PUF insulation	Styrene Packaging & insulations/ Llyod insulation/ Supreme
149	XLPE insulation	Supreme/ Vidoflex/ Trocellen/ K-Flex
150	Expanded Polysterene insulation	Styrene Packing/ Beardsell / ARKC
151	Pre insulated duct	Zeco/ Kingspan/ UP Twiga
152	Pressure/ Temperature Gauge	H Guru/ Fiebig/ Warree/ HD
153	Propeller Fans	GE/ Usha/ Alstom/ Crompton/ Marathon
154	Thermostat/ Humidistat	Honeywell/Johnson/Siemens/Schneider
155	Strip Heater	Das Pass/ Escorts/ Wattco
156	V Belt	Dunlop/ Fenner/ Hilton
157	Variable Frequency Drive	Siemens/Danfoss/ABB/L&T/Allen Bradley
158	Pot Strainer	Emerald/VTM/Rapid Cool
159	Chilled /Hot water Cassette/Wall unit	Carrier/Trane/Daikin/Johnson Control
160	Motorized Butterfly Valve	Honeywell/Belimo/Danfoss/Siemens
161	Water Cooled Chiller	York-Johnson Control/ Dunhum Bush/ Daikin Mcquay/ Trane
162	Cooling Tower	Bell/ Paharpur/ Mihir/Flowtech
163	Ultra Violet germicidal irradiation System	Ruks/Trimed/Steril-Aire
	EPABX, CCTV and Data Networking System	
164	EPABX /IPABX System	Siemens / Cisco / Alca Tel / Matrix/Avaya/Coral/ Panasonic/Mitel/Progility/Nec/Coral
165	Digital/Analog Phone/Handset/IP Phones	Siemens / Cisco / Alca Tel / Matrix/Avaya/Beetel/Panasonic/Coral
166	MDF/IDF	Krone/TVS/Finolex/Coral/Panasonic/Cisco/Mitel/Alcatel/Progility/Avaya/ Nec
167	Telephone tag block/Face plate	Krone/Phoenix/Wago/Belden/Panduit/Huwaei/ Legrand/Amp
168	Cat-6 Cable/Wire & Fiber Optic Cable	Amp/Avaya/Belden/Legrand/Delton/Molex/Schneider.
169	Telephone Cable	Delton/Finolex/RR Kable/Bonton/ Polycab/Lapp
170	CCTV	Bosch/Honeywell/Panasonic/Hanwah
171	CD/DVD Player	Bosch/Honeywell/Bose
172	Data Storage Device	HP/Dell/IBM/Seagate
173	Network Switch/ indoor and outdoor Wi-Fi Device	Cisco/Juniper/Brocade/ HP/Avaya/Extreme
174	Enclosures(Distribution/Server Rack)	Netrack/Belden/Valrack/Legrand/Rittal
175	Router	Alcatel/Avaya/Cisco/HP/Juniper
176	Server	IBM/Dell/HP/Cisco
177	Firewall	Cisco/Juniper/HP/Fortinet
178	Patch panel/Patch cord/Information	Amp/Belden/Panduit/Legrand/Cisco/Siemon/Systimax

	Outlets/Fiber Patch cord/Pigtails/LIU/Adapters/Connectors	
179	LED TV	Sony/Samsung/Panasonic/LG
	Audio Visual System	
180	Projection System	Barco/Digital Projection/Christie
181	Motorized Projection Screen	Da-lite/Draper/Harkness
182	Professional LED Display	Sony/Samsung/Panasonic/LG/Philips
183	Wireless Presentation System	Barco/Crestron/Wow-vision
184	Display Tablet	HP/Dell/Lenovo/Extron/Crestron
185	Mounting for Desktop Tablet	Vidabox/New Star/Ebco/Hettich
186	Desktop Server	HP/Dell/Lenovo
187	Cable Cubby	Crestron/Extron/Altinex/Key Digital
188	Multimedia Encoder/Decoder	Crestron/Extron/Lightware/Key Digital
189	Network Switch	Cisco/Juniper/Brocade/ HP/Zyxel
191	Webcasting Hardware	Crestron/Media Point/Lumens
192	4K Ultra HD AV Presentation System	Crestron/Lightware/Key Digital
193	Video Conference System	Cisco/Polycom/Sony
194	Flush Mount Digital Conference System	Shure/Bosch/Brahler
195	Hand Held/Lapel Microphone	Shure/Bosch/Audio Technica
196	Mixing Console	Yamaha/Mackie/Allen & Heath
197	DSP	Biamp/Shure/Polycom
198	Speakers	JBL/Martin Audio/Bose
199	Power Amplifier	Crown/Martin Audio/Bose
200	UPS	Numeric/Eaton/APC/Vertiv/Mitsubishi/Delta
201	Equipment Rack	Netrack/Belden/Valrack/Legrand/Rittal
202	I/O Interconnect System	Belden/Systimax/Norden
203	Patch Cord	Belden/Systimax/Norden
204	Speakers Cables, STP Cable, HDMI Cable, VGA Cable	Crestron/Klotz/Belden/Kramer
205	Digital Graphics Annotation System/HD base T4K transmitter and receiver, Matrix Switcher Scaler	AMX/Extron/Crestron
	Lift	
206	Lift	OTIS/Mitsubishi/Schindler/Thyssenkrupp(TK Elevator)
	Solar Water Heating and Solar Power Generation System	
207	Solar Water Heating System	Honeywell/Tata Power Solar/Bosch/Racold/Polycab/Venus
208	Solar Photovoltaic System	Tata Power Solar/Moser Baer/Jackson Solar/BEL/CEL/Havells Solar Edge/Vikram
209	Junction Box	VNT/Sun Garner/OEM of SPV Modules
210	SPV Inverter	Sungrow/Delta/SMA/ABB
211	Module Mounting Structure	As per MNRE/Manufacturer's Standard
212	Solar Cable XLPO insulated (DC)	RR Kabel/Polycab/Finolex/Lapp/KEI
	Water Treatment Plant/R.O	

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213	Antivibration Mounting & Flexible Connections	Dunlop/Kanwal/Resistoflex
214	Cartridge filter	GE-Osmonics/Danfoss/Eaton/Big Blue (Pentair)
215	Centralized R.O.Plant	ION Exchange/Thermax/Pentair/PAMM/AWMS/Kemflo/Kent
216	Chain Pulley Block	Indef/Ardee/J.K. Morris/RevaEngg.
217	Conductivity Meter	Fox/Rosemount/Aster/Apurva
218	Coupling	Lovejoy/Dunlop/Fenner
219	Dosing Pump	LMI/Pulser Feeder/Toschon/Grundfos/Injecta
220	Electronic Flow Meter	Krohne(Forbes Marshall)/Rockwin/Cirrus Engineering /ABB/Endress Hauser/Rosemount/Honeywell
221	Sand/Activated Carbon Filter	ION Exchange/Thermax/Pentair/Kemflo/Kent/Aquaguard
222	HDPE/PVC Water Storage Tanks	Sintex/Sheetal/Polyplast/Supreme
223	High Pressure Pump	DP/Grundfos/Xylem /Wilo-Mather & Platt
224	Level Controller & Indicator (Water)	Schneider/Danfoss/Teknika/Minilec
225	PH Meter	Fox/Rosemount/Aster/Welltronix
226	Portable R.O.System	Ion Exchange/Eureka Forbes/Kent/Kemflo
227	Raw water /Treated water/Drainage Pump Set	DP/Grundfos/Xylem /Wilo-Mather & Platt/KSB/Kirloskar
228	Resin	Ion Exchange/Thermax/3M/Dow
229	R.O.Membrane	Dow/Hydranautics/Trisep/G.E-Osmonics /Mitsubishi / Parker/Pentair/Kemflo/Kent/ Aquaguard
230	R.O.Membrane Pressure Vessel	BEL/Pentair/Phoenix/ProtecArisawa/PWG
231	Sodium Hypochlorite Dosing System	Asia LMI/Grundfos/Seko/E-Dose/Thermax/Ion Exchange
232	Softener Vessel	ION Exchange/Thermax/Pentair/Kemflo/Kent/Aquaguard
233	SS 304/316 Pipe	Jindal/Viega/J Press
234	SS 304/316 Strainer	Normex/Advance/Worth Valve
235	SS 304/316 Valves	Audco/Zoloto/Leader/Valsen
236	Storm Water Drainage & Sewage Sump Pumps	DP/Grundfos/Xylem/Wilo/KSB
237	Water Meter (Mechanical Type)	Capstan/Kranti/Anand/Kant/Dashmesh
238	Water Cooler	Usha/Voltas/Blue Star/Sidwal/ION-exchange/Kent/Voltas/Aquaguard
239	Air Blowers	Beta/Everest/Kulkarni/TMVT/Kay/Airvac
240	Air Diffuser System	Airfin/UshaRuba/Rehau
241	Air Vent Valve	Zoloto/Advance/Leader/Arco/Sant
242	Anti Corrosion Tape for Pipe Protection	Pypkote/Makphalt/Rustech
243	Ball Valve	Sant/Leader/Advance/Zoloto/Kirloskar/L&T/Audco
244	Bar Screen	KSP/AWMS/PAMM
245	Chemical Cleaning Pump	Wilo/DP/Grundfos/Xylem/Kirloskar
246	Chemical Cleaning Tank	Sintex/Sheetal/Polyplast/Supreme
247	Chemical Dosing System/Dosing Pump	LMI/Pulser Feeder/Toschon/Grundfos/Injecta/Seko/E-dose
248	FRP Vessel	Pentair/Thermax/ION Exchange/Kent/Aquaguard/Kemflo

249	Electronic Flow Meter	Krohne(Forbes Marshall)/Rockwin/Cirrus Engineering /ABB/Endress Hauser/Rosemount/Honeywell
250	Flow Rota Meter for suction pump	UKL/Aster/Scientific
251	High Pressure Pump	Wilo/DP/Grundfos/Xylem/Kirloskar
252	Level Controller/Indicator/Switch	Aster/Cirrus Engineering/Rockwell Automation
253	MBR Module	GE/Siemens/Mitsubishi/
254	MBR Permeate Suction Pump	Wilo/DP/Grundfos/Xylem/Kirloskar
255	Media	Cooldeck/UshaRuba/MM Aqua/Pharmatech
256	Electric Motor	ABB/Siemens/Kirloskar/Grundfos/NGEF/Crompton Greaves
257	Multiport Valve	Pharer/ORG/Aster/
258	Pump Sets i/c Water Transfer and Sludge Disposal/Transfer Pump	Wilo/DP/Grundfos/Xylem/Kirloskar
258	Resin	Ion Exchange/Thermax/3M/Dow
259	Semi Auto Fine Screen	Toro/KSP/AWMS/PAMM
260	Sewage Feed Pump	Wilo/DP/Grundfos/Xylem
261	UV Systems	Alpha UV/Creative UV/Pentair/Eureka Forbes
262	VFD	Siemens/Danfoss/ABB/L&T/Allen Bradley
	Stage Lighting	
263	Stage Light	Leksha/Canera/Modern Light Service/Showtech

Schedule of work

Name of Work:- C/o "Sardar Vallabh Bhai Niryat Suvidha kendra" i/c Internal EI, Fire fighting System, Fire Alarm system, DG set & Sub-station at Chunar, Mirzapur, U.P. (S.H Balance work)

S.No	Description of items	Qty	Unit	Rate	Amount
	S.H-1 (Electrical Work)				
1	S/I/T/C of 16 Meter height High Mast with base dia nominal 360 mm and top 150 mm in polygonal structure, comprising of winch for raising/ lowering, motor push button, aluminium pulleys, head frame, lightning protection finial & buffers, resting on the foundation bolts duly provided with stiffeners, double locking arrangement for the door and pole installed on the foundation complete as per specifications attached i/c supply and fixing following accessories:-				
	Hot dipped galvanized sheet not less than 3 mm thick (both sections), high mast having 20 side polygonal structures in two (02) sections hot dip galvanised S355 grade as per BS-EN 10025 and suitable for wind velocity 39 M/Sec.as per IS 875(Part-III), with 0.5 Mtr. length of overlap, flanges provided with strengthening gussets between bolt holes for stiffening complete with raising/ lowering mechanism, double drum winch, motor push button station, pulleys, head frame, lightening protection finial and buffers. The sections shall be stress/ slip fitted without any circumferential weld in between. - 1 No.				
	providing and making suitable size cement concrete foundation with PCC-1:4:8 (1 Cement: 4Coarse sand: 8 graded stone aggregate of 40 mm dia moninal size) and RCC-1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources with steel reinforcement as per recommendations of OEM				
	Lantern carriage for accommodating 8 Nos. fittings with suitable arrangement for fixing of luminaries (excluding LED luminaires) - 1 No.				
	Foundation bolts made out from special steel of size M24 X 850 MM Long with anchor plate and templates - 06 Nos.				
	Set of stainless steel hoisting ropes of 6 mm dia.(7/19 Construction 3 no. rope for lantern carrage & 2 no. rope for winch assembly) - 1 Set				
	Motorized power tool system with control gear boxes, reversible type electric motor installed inside the base compartment for its operation, suitable to operate on 415 V/ 230 V, 50Hz, with operating speed of 1440 RPM for lowering and lifting mechanism alongwith weather proof outdoor type control panel for auto on / off,				

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	reverse / forward motor operation with required switchgears & accessories - 1 No.				
	Twin LED type aviation light 15W IP65/66- 1 No.				
	Supplying and drawing of multicore, copper conductor flexible power trailing cables flexible of size 5 x 2.5 sq mm as per IS 694 FRLS type in double length for connection for energizing the luminaries complete as reqd - 1 Lot.				
1.1	G.I. lightning finial with 20 x 3 mm thick GI tape	2	Each	547233.00	1094466.00
	NOTE: The High mast and foundation (Minimum M25) i/c feeder pillar shall be as per manufacturers approved design & drawing. The firm should submit certificate from the manufacturer for structural soundness of the complete high mast system i/c fittings & fixture. The panel shall be designed to operate the luminaries in two baches. Cost of control panel is included in item. The Contractor shall provide two years warranty on motor before the completion of work)				
2	LED Street light fixture, powder coated pressure die cast aluminium body (System lumen efficacy $\geq 120 < 135$ lm/Watt)				
	Supplying, installation, Testing & Commissioning of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency $> 85\%$, Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5°C to 50°C , internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $> 85\%$, THD $< 10\%$ as per IEC 61000-3-2, P. F. ≥ 0.95 , IP-66, IK-10, CRI > 70 , under voltage and over voltage protection, EMIEMC As per CISPR 15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour				
	Matching) < 5 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 120 < 135$ lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
2.1	100 watt	10	Each	2681.00	26810.00

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3	LED Flood Light, powder coated pressure die cast aluminium body (System lumen efficacy ≥ 120 <135 lm/Watt) Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -5 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%, THD < 10% as per IEC 61000-3-2, P. F. ≥ 0.95 , IP-66, IK-10, CRI ≥ 70 , under voltage and over voltage protection, EMI-EMC as per CISPR -15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq. mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 120 <135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
3.1	70 watt	6	Each	2299.00	13794.00
4	Supplying of following sizes one Number XLPE insulated, PVC outer sheathed, armoured with galvanized round steel wire or steel strip cables with stranded aluminium conductor suitable for rated voltage of 1.1KV grade , ISI marked conforming to IS:7098 / (Pt.I) / 1988 with amendment no. 1 of following sizes in following manner.				
4.1	4 core 10 sq. mm	150	Metre	392.00	58800.00
4.2	3.5 core 35 sq. mm	200	Metre	624.00	124800.00
5	Supplying of following sizes one Number XLPE insulated, PVC outer sheathed, Unarmoured with galvanized round steel wire or steel strip cables with stranded copper conductor suitable for rated voltage of 1.1KV grade , ISI marked of following sizes in following manner.				
5.1	3 core 2.5 sq. mm	100	Metre	356.00	35600.00

6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC / Metal / Hume Pipe etc. as required.				
6.1	Upto 35 sq.mm	300	Metre	47.00	14100.00
7	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.				
7.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	50	Metre	64.00	3200.00
8	Supplying and making end termination with brass compression gland and aluminium lugs for following size of XLPE insulated and PVC sheathed/ aluminium conductor cable of 1.1 KV grade as required.				
8.1	4 X 10 sq. mm (25mm)	6	Each	325.00	1950.00
8.2	3½ X 35 sq. mm (32mm)	4	Each	437.00	1748.00
9	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
9.1	63 mm dia (OD-120 mm & ID-103 mm nominal)	300	Metre	289.00	86700.00
10	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	4	Set	8351.00	33404.00
11	Earthing with G.I. earth pipe 4.5 mtr 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.	2	Set	7658.00	15316.00
12	Providing & fixing 25 mm x 5 mm GI strip on surface or in recess for connections etc. as required.	20	Metre	287.00	5740.00
13	Providing and fixing 25 mm x 5 mm G. I. strip in 40 mm dia B class G.I.pipe from earth electrode including connection with G.I. nut, bolt, spring washer excavation and re-filling etc. as required	30	Metre	1638.00	49140.00
14	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	100	Metre	84.00	8400.00

15	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.				
15.1	3 x 4 sq. mm	400	Metre	222.00	88800.00
16	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
16.1	1 or 2 Module	20	Nos	156.00	3120.00
16.2	6 Module	20	Nos	207.00	4140.00
17	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
17.1	5/6 amps switch	40	Nos	121.00	4840.00
17.2	3 pin 5/6 amp socket outlet	40	Nos	136.00	5440.00
17.3	15/16 amp switch	40	Nos	176.00	7040.00
17.4	6 pin 15/16 amp socket outlet	40	Nos	219.00	8760.00
17.5	RJ-45	40	Nos	483.00	19320.00
18	Providing, fixing, designing and manufacturing of architectural evacuation of 1.2 mm aluminium photo luminescent non toxic, non-radioactive maintenance free self-along with exit signages and other informative signage's coated with minimum 50 micron pigment coating layer comprising of rare earth aluminates such as strontium aluminates with long lasting (from 4 to 5 hours) glow in dark condition, printed on U-1000 photo luminescent capable of withstanding high temperature fine flame, light acids and alkaline water containing luminescent 111 as base chemical cover with UV stabilized coating protection, fungus proof, higher durability and weather proof complete i/c fixing with mirror screws/ steel screws/ hanging arrangement as per direction of Engineer-in-charge as per site requirement etc complete as required.	800	Sq.inch	25.41	20328.00
19	SITC of water cooler with inbuilt RO + UV Purifier, Capacity of 120 ltr & 80 LPH with two tap outlet having inbuilt 7 stage reverse Osmosis Purification system (i.e. RO+UV with CuZn), suitable for operation on 230 +- 10% V AC, 50 Hz, single phase with power consumption 850 W +- 10% , providing water outlet temperature at 17 degree C +- 1% Degree C, refrigerant R-134a, the storage tank material of SS 304 and outer SS 304, RO membrane rating 4x75 GPD, % of purified water recovery : 25% 50 LPH, % rejection of tds 90%, operating temp. 15 degree C to 45 degree c and Auto-flush at every start, every stop and every one hour for 1 minute etc. complete in all respect.	3	Nos	190275.00	570825.00
	Total S.H-1 (Electrical Work)				2306581.00

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	S.H-2 (LAN Work)				
20	Supply and fixing of following size Wall Mount Rack having Fixed Structure with 0.8mm CRCA Sheet, completely knocked-down condition (CKD) Shape, Vertical Mounting Rail 1.6 mm with 'U' Marking, Minimum 2 cable entry/exit provision at Top and bottom with rubber protection, Front 5mm Toughened Glass with lock, wall mounting kit, Powder coated Color-RAL- 7035, complied with UL & RoHS, 2 x 6 sockets 16A power distribution units, 3 numbers closed cable organizer, Hardware mounting screws packet of 20 x 1 number, etc. complete as required.				
20.1	15U Rack	4	Nos	13330.00	53320.00
21	SITC of 24 port Cat6 Patch Panel loaded. Must be of 1U height with clear label holders and white label with the panel. 24 Ports Cat-6 Patch Panel should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D	6	Nos	5278.00	31668.00
22	SITC of SMB-grade 28-port Gigabit Smart Managed switch suitable for local area networking and high-speed data transfer applications. The item must feature twenty-four (24) 10/100/1000 Mbps RJ-45 auto-sensing ports and four (4) Gigabit SFP uplink slots for fiber connectivity. It must deliver non-blocking wire-speed performance with a minimum switching capacity of 56 Gbps and a forwarding rate of 41.7 Mpps. It must feature a fanless or highly efficient cooling design for quiet operation. (For LAN Networks)	6	Nos	16196.00	97176.00
23	Supplying, Installation, Testing and commissioning of following CAT6 Patch Cord should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D				
23.1	Copper Patch Cords of length 1m (3ft)	150	Nos	151.00	22650.00
23.2	Copper Patch Cords of length 3m (10ft)	30	Nos	227.00	6810.00
Total S.H-2 (LAN Work)					211624.00

	S.H-3 (Air conditioning Work)				
24	Supply, Installation, Testing and Commissioning of Air Cooled Cassette type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), R- 32/R410A/R-407 Green Refrigerant, wireless Remote, inbuilt drain pump, suitable for 400/230V, 50 Hz ,1 /3 phase AC supply, including surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 5.5 Mtr (IDU to ODU), copper power and control cable upto 5.5 Mtr (IDU to ODU) including drain pipe, the system shall be capable of performing cooling, dehumidification, Air circulation, filtration & ventilation of following capacity with Scroll/rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB) as specified. The system shall be able to deliver 100% of the rated capacity as per relevant IS Code. The lab testing reports as per IS: 1391 shall be submitted from National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited as per International Electro technical Commission (IEC) 17025 standards / Central Power Research Institute (CPRI)/Electrical Research and Development Association (ERDA)with Original Equipment Manufacturer (OEM) etc. complete as per CPWD specification and as per IS: 1391 as required.				
24.1	3.0 TR with 5 Star BEE Rating	6	nos	107192.00	643152.00
24.2	2.0 TR with 5 Star BEE Rating	4	nos	74300.00	297200.00
25	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of 19 mm thick insulation as given below for Suction and Liquid lines, all accessories as per specifications etc. as required :				
25.1	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	150	mtrs	346.00	51900.00
25.2	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	150	mtrs	615.00	92250.00

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26	Supply and fixing of following size rigid heavy duty PVC drain piping complete with fittings, support as per drawing and insulated with 6 mm closed cell elastomeric insulation.				
26.1	25 mm	250	mtrs	153.00	38250.00
27	Supplying and laying of following sizes multicore unarmoured FRLS copper conductor cable, PVC insulated complying IS:694 : 2010, in surface/Cable tray/ / trunking etc complete with connection and testing as required.				
27.1	3 core 6 sq. mm	250	mtrs	717.00	179250.00
28	Providing fixing of suitable size of MS stand for ACs Outdoor unit i/c making foundation, primer, paint and fixing of suitable sized of nut & bolt etc. as required.	10	nos	2000.00	20000.00
29	Supplying and laying of following sizes multicore unarmoured FRLS copper conductor cable, PVC insulated complying IS:694 : 2010, in surface/Cable tray/ trunking etc complete with connection and testing as required.				
29.1	4 core 2.5 sq. mm	250	mtrs	331.00	82750.00
30	Supplying , Installation, Testing and Commissioning of Air Cooled Hi Wall split type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 3.5 Mtr (IDU to ODU) i/c drain pipe R-32/R-410/ R-407 Green Refrigerant, wireless Remote control, suitable for working between 180-260V with low & high voltage cutoff and 50 hz ,1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / rotary compressor. The system shall be able to deliver 100% of the rated capacity upto 42 0C. Min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). Must comply : Electrical cable IS 694 or IS 9968 temperature sensing control IS /International Electrotechnical Commission (IEC) 60730, hermetic compressor IS 10617, heat exchanger IS 11329, capacitor IS 2993 and motor IS 12615. Complete as per CPWD specification and IS : 1391 Part II 2023. The system shall be able to operate up to 50 0C (out door ambient temperature).				
30.1	2.0 TR with 5 Star BEE Rating	3	Nos	57396.00	57396.00
	Total S.H-3 (Air conditioning Work)				1462148.00
		Grand Total-			3980353.00

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