

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

NIT No.: 67/EE(E)/DED-203/2026-27 (2nd Recall)

Name of Work: Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply in Canteen at 4th floor, Niti Aayog, New Delhi.

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Assistant Engineer(E)-P
DED-203,C.P.W.D.,
Sena Bhawan, NewDelhi

Executive Engineer(E)
DED-203,C.P.W.D.,
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INFORMATION AND INSTRUCTION FOR E-TENDERING

The Executive Engineer (E), Delhi Electrical Division-203, CPWD, Sena Bhawan, New Delhi-110011, (Phone No. 011-21410814, E-mail Id: deleee-ded203@cpwd.gov.in) on behalf of President of India invites online percentage rate bids from the “(a) Manufacturers/OEM’s, (b) Specialized firms and (c) Approved and eligible CPWD Building & Roads category Contractors” in Two bid system for the following work

No.	NIT No.	Name of work & location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date & time of submission of bid.	Period during which original EMD, copy of receipt for deposition of original EMD and Other documents submitted	Time & date of opening of Bid
1	2	3	4	5	6	7	8	9
1	67/EE(E)/DED-203/2026-27(2 nd Recall)	Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply in Canteen at 4th floor, Niti Aayog, New Delhi.	Rs. 11,41,680/-	Rs. 22,834/-	02 Months	09/10/2026 upto 15:00 hrs	09/10/2026 upto 15:00 hrs	09/10/2026 upto 15:30 hrs

- Agencies who fulfil any one of the requirements given below as “A” and “B” shall be eligible to apply. Joint ventures are not accepted.

A. For CPWD registered contractors: -

- CPWD registered contractor in appropriate class on the last date of receiving the tenders in B&R category are eligible to bid for this work.
- The CPWD registered contractor should have the experience of “Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply.” or the CPWD registered contractor associates specialized agency having experience of “work related to Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply.” as mentioned below during the last 7 years ending last date of published tender”.

Three similar completed works each costing not less than 40% of Estimated Cost put to Tender
or
two similar completed works each costing not less than 60% of Estimated Cost put to Tender
or
one similar completed work costing not less than 80% of Estimated Cost put to Tender

Similar work shall mean “**Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply**”.

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

B. For OEM / non-CPWD specialized firms: -

B1. The non-CPWD specialized firms should have the experience of “**work related to Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply**” as mentioned below during the last 7 years ending on calculated from the date of completion to previous day of last date of submission of bids”.

Three similar completed works each costing not less than 40% of Estimated Cost put to Tender
or
two similar completed works each costing not less than 60% of Estimated Cost put to Tender
or
one similar completed work costing not less than 80% of Estimated Cost put to Tender

Similar work shall mean “**Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply**”.

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

2. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
3. Information and Instructions for bidders posted on website shall form part of bid document.
4. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website etender.cpwd.gov.in free of cost.
5. 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 Banker's Cheque, Demand Draft, Fixed Deposit Receipt (FDR), Insurance Surety Bond and Bank Guarantee of any Commercial Bank or through NTRP (www.bharatkosh.gov.in) towards EMD in favour of Executive Engineer (E), ECD-II, CPWD, Sena Bhawan, New Delhi, receipt for deposition of original EMD to division office of any Executive Engineer, CPWD and other documents as specified.

6. Those contractors, who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of <https://etender.cpwd.gov.in>.
7. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the em signer on their system as per instructions available on download section of <https://etender.cpwd.gov.in>
8. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
9. Contractor can upload documents in the form of JPG format and PDF format.
- ~~10. Certificate of Financial Turn over: At the time of submission of bid contractor may upload Affidavit/Certificate from CA mentioning Financial Turnover of last 7 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.~~
11. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue.

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

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

- ~~12. The Technical Bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.~~
- ~~13. Pre Bid conference shall be held in the chamber of at on to clear the doubt of intending bidders, if any.~~
- ~~14. 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.~~

- ~~15. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.~~
- ~~16. I propose to adopt structural system technology as mentioned in the letter of transmittal. (Applicable for EPC tenders under Mode I / II only)~~

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

1. Earnest Money in the form of Deposit at **Banker's Cheque, Demand Draft, Fixed Deposit Receipt (FDR), Insurance Surety Bond and Bank Guarantee of any Commercial Bankor through NTRP (www.bharatkosh.gov.in)**→ deposition in ministry of UD under Code 30 → PAO Code - 043144 → DDO Code - 143258, towards EMD in favor of **Executive Engineer(E), ECD-II, CPWD, Sena Bhawan, New Delhi. (by all bidders).**
2. (a) Copy of 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) or
(b) Copy of receipt for deposition on bharatkosh.gov.in, which issued by the Government of receipt portal. **(by all bidders).**
3. Copy of enlistment order of the contractor of the Building & Roads category in CPWD. **(For CPWD registered contractors only)**
4. Valid Electrical License or an Undertaking as per Annexure-II of NIT.
5. Work experience certificates issued by the officer not below the rank of the Executive Engineer. **(by all bidders).**
6. Copy of Certificate of Registration in GST & acknowledgment of upto date filed return of GST i.e March 2026. **(by all bidders).**
7. ERP (Enterprises Resources Planning) training certificate issued by CPWD for e-tendering process. **(by all bidders).**
8. The agency should upload Bank Account Details registered with his firm like Bank name, A/c Number, IFSC Code, A/c name on blank paper/firm letter head with valid email ID and Mobile No. or Bank Pass Book having details of Account. **(by all bidders).**
9. Any other Document as specified in the NIT. **(by all bidders)**

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Receipt of deposition of original EMD

1. The **Engineer-in-Charge/DDH** of any divisions/projects of CPWD or any other officer designated by CPWD Directorate from time to time, are authorized to receive the EMDs. These authorities should receive the original EMD for their tenders or tenders of any other division/projects.
2. The NIT approving authority/ Tender inviting authority at the time of issue of NIT also fill and upload the following prescribed format of receipt of deposition of original EMD along with NIT:-

(Receipt No...../Date.....)

Name of work: Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply in Canteen at 4th floor, Niti Aayog, New Delhi.

1. **NIT No. 67/EE(E)/DED-203/2026-27 (2nd Recall)**
2. **Estimated Cost: Rs. 11,41,680/-**
3. **Amount of Earnest Money Deposit: Rs. 22,834/-**
4. **Last date of submission of bid:09/10/2026, Time 3:00 PM**

- (i) Name of Contractor:#
- (ii) Form of EMD:.....#
- (iii) Amount of Earnest Money Deposit:.....#
- (iv) Date of Submission of EMD:.....#

Signature, Name and Designation of EMD receiving officer along with Office stamp
(# To be filled by EMD receiving EE/DDH)

3. The Authority receiving EMD in original form examines the EMD deposited by the bidder and issues receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting authority. The receipt can also be issued by any subordinate gazette authority as authorized by the Engineer-in-Charge/DDH.
4. The authority receiving original EMD also intimates tender inviting authority about deposition of EMD by the agency by email/fax/telephonically.
5. The original EMD receiving authority releases the EMD to unsuccessful bidders after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier, after verification from the e-tendering portal website (<https://etender.cpwd.gov.in>>closed Tender>all) that the particular contractor is not L-1 tenderer and work is awarded.
6. The tender inviting authority calls for original EMD of the L-1 tenderer from EMD receiving authority immediately.

Note: 1. Receipt of EMD issued by Sub-Division office will not be accepted.
2. The agency has to quote rate in percentage upto 2 decimal point only.
3. All blurry or not readable uploaded documents will not be accepted / considered.

CPWD-6FORE-TENDERING

1. Percentage rate bids are invited on behalf of President of India from the “(a) **Manufacturers/OEM’s**, (b) **Specialized firms** and (c) **Approved and eligible CPWD Building & Roads category Contractors**” in Two bid system for the following work: -

Name of Work: Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply in Canteen at 4th floor, Niti Aayog, New Delhi.

The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of 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.11,41,680/-**. 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 **works as mentioned in INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FOR MINGPART OF BID DOCUMENT**
 - 1.2.1 ~~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)~~
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 **etender.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 is clear for the execution of work.
5. After submission of the bid the contractor can re-submit a revised bid any number of times but before last time and date of submission of bid as notified.
6. While submitting the revised bid, the 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.
7. ~~When bids are invited in three stage system and if it is desired to submit a revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.~~
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e- Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks or through NTRP (www.bharatkosh.gov.in) drawn in favour of Executive Engineer(E), ECD-II, CPWD, Sena Bhawan, New Delhi 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 of any scheduled bank having validity for six months 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 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, who has deposited EMD 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 **09/10/2026**.

9. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
 - i. The bidder is found ineligible.
 - ii. The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - iii. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - iv. If a 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.
10. 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 or through NTRP (www.bharatkosh.gov.in) 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. 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.
11. 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 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~~.
12. 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.
13. 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.

14. 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.
15. 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 as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of 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.
16. 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.
17. 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.
18. 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.

19. ~~For Composite Bids~~

~~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.~~

~~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 of maintenance work 2023 as amended/modified upto.....

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.~~

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

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

~~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.~~

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

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

~~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).~~

~~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.~~

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

~~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. Integrity Pact: The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender equal or more than the threshold value given in Schedule F. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.~~
21. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (Phone no - **01123016839** , e- mail Id – **deleee.ded203@cpwd.gov.in**) or 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.
22. Price Preference to SC/ST individual contractor for item rate/percentage rate tender: Price preference in quoted item rate/percentage rate tender shall be applicable to the individual enlisted/non-enlisted SC/ST contractor as under:-
 - (i) For work(s) upto and equal to an estimated cost of Rs. 2.80 lakh a price preference upto 5% (with reference to the lowest valid tender) may be allowed in favor of individual SC/ST enlisted/non-enlisted contractor. No earnest money is required in such case(s).
 - (ii) For work(s) beyond an estimated cost of Rs. 2.80 lakh and upto and equal to estimated cost of Rs. 6.40 lakh, the price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual enlisted SC/ST contractor. However, earnest money at a reduced rate of ½% may be accepted in such cases.

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

23. **Additional Performance Guarantee (APG)**

A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.

Requirement of Additional Performance Guarantee (APG) : In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is 'A' and quoted amount is 0.7A then the amount of APG shall be $0.8A - 0.7A$).

The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.

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

राज्य STATE : New Delhi

शाखा BRANCH : E & M

अंचल ZONE : NDZ-2

परिमंडल CIRCLE:- --

मंडल DIVISION :- DED-203

उपमंडल SUB-DIVISION: IV

कार्यो के लिए मद दर निविदा एवं संविदा
Composite Tender & Contract for Works

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

Name of Work: Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply in Canteen at 4th floor, Niti Aayog, New Delhi.

- (i) Tenders to be submitted online by **15.00 Hrs. on 09/10/2026** in the office of **Executive Engineer (E)**, Delhi Electrical Division-203, Sena Bhawan, C.P.W.D, New Delhi-110011.
- (ii) To be opened on line in presence of tenderers who may be present at **15.30 Hrs on 09/10/2026** in the office of **Executive Engineer (E)**, Delhi Electrical Division-203, Sena Bhawan, C.P.W.D, New Delhi-110011.

Issued to N/A as the. Tender document made available
 Signature of the officer issuing the documents.

Online to the agency.
 Online uploading authority.

*** As per Instruction & Information for bidder

Designation :

Executive Engineer (E)
 DED-203, C.P.W.D.,
 Sena Bhawan, New Delhi

Date of issue.....

As per NIT

निविदा / 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.

I/We agree to keep the tender open for ...days from the due date of its opening in case of single bid system..... from the date of opening of technical bid in case tenders are invited on 2 /3 bid/ system for specialized work and not to make any modification in its terms and conditions.

A copy of earnest money in receipt treasury challan/deposit at call receipt of a commercial bank/fixed deposit receipt of commercial bank/demand draft of a commercial bank/bank guarantee issued by a commercial bank is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

तारीख Dated

डाक पता Postal Address

ठेकेदार के हस्ताक्षर Signature of Contractor

साक्षी Witness :

पता Address:

उपजीविका Occupation :

स्वीकृति / ACCEPTANCE

मैं भारत के राष्ट्रपति की ओर से तथा उनके लिए रु0: '.....

(रुपये'.....

.....) की राशि के लिए उपर्युक्त

निविदा (अधोलिखित पत्रों के अनुसार परिवर्तित) स्वीकार करता हूँ।

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

(Rupees*

नीचे दिए गए पत्र इस ठेका करार का हिस्सा होंगे।

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

- i) *
- ii) *
- iii) *

भारत के राष्ट्रपति की ओर से तथा उनके लिए

For & on behalf of the President of India.

हस्ताक्षर Signature

तारीख Dated

पदनाम Designation

PROFORMA OF SCHEDULES

(Separate Performa for Civil & Elect. Works in case of Composite Tenders)

PROFORMA OF SCHEDULES		
SCHEDULE 'A'		
Schedule of quantities (as per PWD-3):-As per Schedule of works attached		
SCHEDULE 'D'		
Extra schedule for specific requirements/document for the work, if any		
	Page no. (From)	
Terms & Conditions / Additional Terms and Conditions	As per conditions attached	
SCHEDULE 'E'		
Reference to General Conditions of contract	General Conditions of Contract 2023 for maintenance work as amended/modified upto the previous day to last date of submission of Bid.	
Name of work :	Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply in Canteen at 4th floor, Niti Aayog, New Delhi.	
Estimated cost of work:	Rs. 11,41,680/-	
(i) Earnest Money :	Rs. 22,834/-	
(ii) (a) Performance Guarantee	5% of Estimated cost put to tender (ECPT) or contract amount whichever is higher.	
(ii) (b) Additional Performance Guarantee	Additional Performance Guarantee (APG) equivalent to the difference between the 80% amount of ECPT and quoted amount.	
(iii) Security Deposit	2.5% of Tendered Value	
SCHEDULE 'F': GENERAL RULES & DIRECTIONS:-		
Officer Inviting Tender :	Executive Engineer(E), DED-203, CPWD, Sena Bhawan, New Delhi-110011	
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with clauses 12.2 & 12.3.	As per clause 12	
2 (v)	Definitions:	
	Engineer-in-charge	Executive Engineer(E), DED-203, CPWD, Sena Bhawan, New Delhi-110011
2 (viii)	Accepting Authority	Executive Engineer(E), DED-203, CPWD, Sena Bhawan, New Delhi-110011
2 (x)	Percentage on cost of material and labour to cover all overheads and profits.	15%
2 (xi)	Standard Schedule of Rates	DSR 2025 / Market Rates
2 (xii)	Department	CPWD

9(ii)	Standard CPWD contract Form GCC 2023, CPWD Form 7/ 8 as modified & corrected upto	GCC 2023, maintenance works CPWD Form 7 as amended/ modified up to the previous day to last date of submission of bid.
Clause 1:-		
(iv) 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		04 Days
(v)Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above		03 Day
Clause 2:		
Authority for fixing compensation under clause 2.		Chief Engineer, New Delhi Zone-II, CPWD, Supreme Court Metro Station Building, Pragati Maidan, New Delhi
Clause 2A:		
Applicable Clause 2A		No
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:-		07 Days

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

Sl. No	Description of mile stone (s) (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of Non-achievement of Mile Stone (s)
	Not Applicable		

Authority to decide:	
(i) Extension of time (Engineer in Charge or Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)	Chief Engineer, New Delhi Zone-II, CPWD, Supreme Court Metro Station Building, Pragati Maidan, New Delhi
(ii) Rescheduling of mile stones (Superintending Engineer/PM/CPM in Charge or Superintending Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)	Chief Engineer, New Delhi Zone-II, CPWD, Supreme Court Metro Station Building, Pragati Maidan, New Delhi

(iii) Shifting of date of start in case of delay in handing over of site (Superintending Engineer/ PM/CPM in Charge or Superintending Engineer/ PM/CPM in Charge of Major Component in case of Composite Contracts, as the case may be)	Chief Engineer, New Delhi Zone-II, CPWD, Supreme Court Metro Station Building, Pragati Maidan, New Delhi
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PROFORMA OF SCHEDULES Clause 5 Schedule of handing over of site

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

Clause 5 Applicable clause 5/ Clause 5A	Clause 5		
Clause 6 Applicable clause	Electronic Measurement Book (EMB) through CPWD ERP Portal		
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	5 Lakhs		
Clause 7A: Whether clause 7A shall be applicable.	Yes		
Clause 10 A: List of testing equipment to be provided by the contractor at site lab.	As per terms & Conditions		
Clause 10B(ii)			
Whether Clause 10 B (ii) shall be applicable	Not Applicable		
Clause 10 C:-	Not Applicable		
Clause 10 CC	Not Applicable		
Schedule of component of other Materials, Labour etc. for price escalation	Day to day maintenance/W atch & ward/Cleaning work	Supply of material	Minor work / Special Repair work
Component of civil (except materials covered under clause 10CA) /Electrical construction value of work. - Xm %	--	--	--
Component of Labour - expressed as percent of total value of work-Y.....%	--	--	--
Note:-Xm.....% should be equal to (100) - (materials covered under clause 10CA i.e. Cement, Steel, POL and other material specified in clause 10CA + Component of Labour)	--	--	--

Clause 11: Specifications to be followed for Execution of works		All CPWD Specification related with work as amended upto date.
Clause 12, 12.2	Deviation Limit beyond which clauses 12.2 shall apply for building work	No Limit
Clause 16:-		
Competent Authority for deciding reduced rates		Chief Engineer, New Delhi Zone-II
Clause 18:-		
List of mandatory machinery, tools & plants to be deployed by the contractor at site:		As per requirement of work at site and terms and conditions.
Clause 19C		
Authority to decide penalty for each default		Chief Engineer, New Delhi Zone-II
Clause 19D		
Authority to decide penalty for each default		Chief Engineer, New Delhi Zone-II
Clause 19G		
Authority to decide penalty for each default		Chief Engineer, New Delhi Zone-II
Clause 19K		
Authority to decide penalty for each default		Chief Engineer, New Delhi Zone-II
Clause 25		For all claim and dispute
Conciliator		SDG or ADG concerned with the work as applicable. The disputes and amount of each disputes may be promptly referred to conciliator.
Arbitrator appointing authority		Chief Engineer, New Delhi Zone-II, CPWD, Supreme Court Metro Station Building, Pragati Maidan, New Delhi
Place of Arbitration		Delhi

Clause 32: Requirement of Technical Representative(s) & recovery Rate: -

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 even to not fulfilling provision of Clause36(i)	
						Figures	Words
N.A							

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

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

Clause 38	
(i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates..... Printed by CPWD.	N/A
(ii) Variations permissible on theoretical quantities:	
a) Cement For works with estimated cost put to tender not more than Rs. 25 lakh.	N/A
For works with estimated cost put to tender more than Rs. 25 Lakh	N/A
b) Bitumen all work	N/A
c) Steel reinforcement and structural steel sections for each diameter, section and category	N/A
d) All other materials.	N/A

ANNEXURE-I

Reference of disputes and amount claimed for each dispute to the Conciliator
[Refer to Clause 25]
Appendix-XVII

To,
 The ADG/SDG

 Nirman Bhawan
 New Delhi

Sub: Reference of disputes and amount claimed for each dispute to the Conciliator for settlement of disputes relating to agreement number.....

Dear Sir,

In terms of Clause-25 of the aforesaid agreement, particulars of which are given below,

I/We hereby refer my / our disputes and amount claimed for each dispute to you for settlement in your capacity as Conciliator:-

1. Name of applicant:
2. Whether applicant is Individual / Proprietorship Firm/Partnership Firm/Company:
3. Full address of the applicant:
4. Name of the work and contract number for which arbitration is sought:
5. Name of the Division which entered into contract:
6. Contract amount:
7. Date of contract.
8. Stipulated date of start of work:
9. Stipulated date of completion of work:
10. Actual date of completion of work (if completed):
11. Total number of claims made:
12. Total amount claimed made:
13. Date of intimation of final bill (if work is completed):
14. Date of payment of final bill (if work is completed):
15. Amount of final bi (if work is completed):
16. Date of claim made to Engineer-in-Charge:
17. Date of receipt of decision from Engineer-in-Charge:

I/We certify that the information given above is true to the best of My/ our knowledge. I/We enclose the statement each claim.

Yours faithfully

Signature of the applicant
 (Only the person/authority who signed
 the contract should sign here)

Copy to.

1. The Chief/ Superintending Engineer.....
2. Executive Engineer.....Division.

ANNEXURE-II**UNDERTAKING**

I/We, M/s undertaken
that I/We will either obtain Valid Electrical License at the time of execution of
electrical work or associates contractors having Valid Electrical License of eligible
class.

Sign & Stamp of Firm

General Terms & Conditions

1. Introduction

These conditions are intended to amplify the General Conditions of Contract, and shall be read in conjunction with the same. For any discrepancy between the General Conditions and these Special Conditions, the more stringent shall apply.

2. Related Documents

These additional specifications are to be read in conjunction with the specification given in the tender. In case any item/ items or part thereof are not covered under these specifications, the same shall be carried out as per relevant part of the **CPWD General Specification for Electrical Works Part-I Internal-2023, Part-II External-2023, and Part IV (Sub-Station) 2013, Part V Wet Riser & Sprinkler Systems, HVAC - 2024, Part VII (DG Set)**, as amended upto dates, relevant electricity act BIS/IEC and as per direction of Engineer –in - Charge. These additional specifications are to be read in conjunction with above and in case of variations; specifications given in this additional condition shall apply. However, nothing extra shall be paid on account of these additional specifications and conditions, as the same are to be read along with schedule of quantities for the work. In case of discrepancy among the specifications/conditions as mentioned above the precedence given in general condition of contract shall be followed.

3. 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.

4. Conformity With Statutory Acts, Rules, Standards And Codes

- (i) All components shall conform to relevant Indian Standard Specifications, wherever existing, amended to date.
- (ii) All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2023 and Indian Electricity Rules, 1956 amended to date. They shall also conform to CPWD General Specifications for Electrical works, Part-I: Internal, 2023 and Part-II: External, 2023 as amended to date.
- (iii) All components shall conform to Energy Conservation of sustainable Building Code 2024 of India as amended or revised up to date.

5. Safety Codes And Labour Regulations

- (i) In respect of all labour employed directly or indirectly on the work for the performance of the **S.I.T.C of Kitchen Equipment's** works contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, 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 as provided in the labour laws/ GCC for each violation. In addition the Engineer-in-charge shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.

- (ii) The contractor shall provide necessary barriers, warning signals and other safety measures while executing the works 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 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 there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

6. **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 their tendered cost- whether specifically indicated in the schedule of work or not: -

- (i) Making good all damages caused to the structure during installation and restoring the same to their original finish.
- (ii) Minor building work necessary for installation of equipments, making opening in the wall/floors/slabs/tables or modifications in the existing openings wherever provided and restoring the same to their original condition/ finish and necessary grouting etc. as required. Opening in the slab/retaining walls/brick wall etc. shall be made by means of core cutting machines only.
- (iii) Sealing of all floor slab/wall openings provided by the Department or made by the contractor for laying cables from fire safety points of view.
- (iv) Suspenders, brackets and floor/wall supports for suspending/supporting cable tray, cables etc.
- (v) Removal & disposal of the all the malba/ debris occurs during the execution of work from the site.

7. **Rates**

The rate quoted by bidder, shall be firm and inclusive of all taxes (including GST), duties and levies and all charges for packing, forwarding insurance, loading, unloading shifting to location of work, freight and delivery, installation, testing, commissioning etc. at site including temporary constructional storage, risks, overhead charges, general liabilities/obligation etc. No escalation in quoted rates shall be permitted for any reason whatsoever.

8. **Acceptable Makes**

The acceptable makes of the various equipments/ components/ accessories have been indicated in “List of Makes” annexed with this document. The bidders shall work out the cost of the offers on this basis. Alternate make/ model is not acceptable.

9. **Machinery for Erection**

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

10. **Payment**

Quarterly payment will be made on completion of compliance of all terms & conditions of agreement.

11. **Completeness of the tender, submission of programme, approval of drawings and commencement of work.**

(i) **Completeness of the tender**

All sundry equipments, fittings, assemblies, accessories, hardware items, gaskets, and associated items, 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 equipments 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 Name of workers and supervisor etc.**

The contractor shall submit the name, IDs and credentials of all workers and staff to be deployed by them at site to the Engineer-in-Charge for approval before start of work OR 10 days prior from date of start.

12. **Extent of Work**

This includes entire labour including supervision and all material necessary to meet satisfactory operation of the system.

13. **Compliance with Regulations and Indian Standards:**

- (i) All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:
- (ii) Factories Act.
- (iii) Indian Electricity Rules.
- (iv) B.I.S. & other standards as applicable.
- (v) Workmen's compensation Act.
- (vi) Statutory norms prescribed by local bodies like CEA, Power Supply Co., etc.

14. **Indemnity:**

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

15. **Co-Ordination with other agencies**

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

16. **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) All equipments 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.
- (iii) None of the equipment/ machines supplied shall be more than Twelve months old from date of supply at site, Copy of Excise Gate Pass/ Invoice/ Shipment /Custom Clearance certificate/ details (in case of Imported equipments) shall be submitted to prove the date of manufacture & genuineness of the equipments/ machines supplied.

17. **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.

18. **Inspection and testing**

All the material purchased by the contractor shall not be more than three months before award of work. Proof of purchasing from such authorized source like copy of bill/ challan etc. shall be submitted to the department before claiming on account bill for payments.

19. **Final Inspection & Testing**

Final Inspection & testing will be done by the Engineer-in-Charge or his representative as per details indicated in CPWD Specifications.

20. **Safety measures**

All equipments 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.

- 21. The firm shall have to obtain necessary Security Passes/Entry Passes by doing all necessary formalities before start of work. The department will only assist for the same.
- 22. Any delay at the end of agency on account of obtaining passes shall not be entertained for extension of time for the work.
- 23. No claim shall be entertained by the department if any accident occurs during currency of this contract. The contractor has to arrange and provide to his workmen, all safety devices and observe all precaution to avoid any accident. The contractor shall be totally responsible for safety of their workman deployed at site.

24. The contractor shall handover inventory after completion of the contract the firm.
25. All the Nominal Tools and other T&P required for this work shall be arranged by the contractor at his own cost.
26. The department reserves the right to terminate the contract before the expiry of contract without assigning any reason and also to exclude any item of NIT while awarding the work without assigning any reason thereof.
27. The payment shall be made on submission of bills by the contractor in compliance to conditions of agreement on mutually agreed basis.
28. If any quantity deviation in the agreement items based on the design at the time of execution of work, agency has to execute the deviated quantity items within the agreement rate only.
29. The agency shall visit the site and acquaint the quantum, nature of work and get familiarized with the site conditions before quoting the rates.
30. If there is any difference or discrepancy between the description of items as given in the Schedule of Quantities, technical specifications for individual items of work (including additional and commercial conditions) and IS Codes etc., the following order of preference shall be followed:
 - a. Schedule of quantities
 - b. Additional and Commercial Conditions
 - c. Technical specifications specified in the tender
 - d. General Conditions of Contract for CPWD Works
 - e. Drawings
 - f. CPWD General Specifications
 - g. Relevant IS or any other International code in case IS code is not available.
31. No T&P shall be issued to the agency by deptt.
32. No advance payment shall be made.
33. All the materials, used by the contractor should be got approved from the Engineer-in-Charge or his authorized representative before installation. No payment will be made for any unapproved or sub-standard materials used on the work. Rejected materials should be removed from the site of work within 48 hours, by the contractor.
34. Department will not provide the store to the agency and watch and ward of materials will be responsibility of contractor till completion/ hand over to the client department.
35. The contractor shall be solely responsible for any accident during execution of work & should take all preventive & safety measures. The department shall not be responsible in this respect for any lapse on the contractor part.

36. The contractor shall be liable and responsible for any kind of litigation in the court of law during execution of work, and any compensation there to has to be born by the contractor and the department shall not be involved in anyway.
37. The contractor has to work in restricted area and in restricted time due to security reasons. He shall be bound by the instructions of security staff and Engineer-in-Charge in this respect.
38. The models and makes shall be decided by the Engineer-In-Charge at site and to be got approved before execution of work.
39. All the petty materials like Vim, Colin, Old dhoti/duster, soap bar, PVC insulated copper conductor control cables, PVC Tape, Test Lamp, Thimble/ Ferrule, battery terminals, log book, complaint register etc. required for general up keeping shall be deemed to be included in the scope of work and shall be arranged by the contractor within the quoted rate.
40. Any damage to the installation/ building during execution of work shall be made good by the contractor at his own cost. Repair work if any, should be done with proper cement and sand ratio and to be match with existing finish.
41. Safety of the staff deployed will be the responsibility of the contractor who must ensure the safety of the staff adequately, as per CPWD safety rules. Govt. /CPWD will not be responsible for any mishap, injury accident or death of the staff. No claim in this regard shall be entertained/accepted by the department.
42. The staff engaged by the contractor shall possess valid electrical license should be well behaved, polite and courteous. Any complaint against staff on behavior shall be taken very seriously and such staff should be removed by the contractor immediately from the site and arrange replacement for the same failing which the Engineer-in-charge has the power to cancel the contract and the contractor shall have no claim of loss/ compensation for this.
43. All T&P including ladders, wire drawing equipment, electrical chase cutting equipment, drill machine, meggar, earth resistance testing equipment etc., required for the work shall have to be arranged by the contractor. No T & P shall be issued by the department.
44. The contractor shall quote the rate which shall be inclusive all taxes, and welfare benefits payable to the workers etc. and nothing shall be paid extra on this account. Any type of conditional offer shall be summarily rejected.
45. The work is to be executed in a secured building for which entry pass is required to be issued by the client department for which the contractor has to submit list of workers to be deputed along with their technical qualification and experience required as per NIT and Aadhar card & photo etc. along with PCC (Police Clearance Certificate) not older than 1 year, and other documents required from time to time for which nothing extra shall be paid and no claim shall be entertained for loss of labour and the contractor shall follow the security guidelines / rules.

46. The following documents related to staff/labour to be deployed at site is to be submitted for issue of pass within 7 days of issued of award letter.
- a) 2 Nos.- Passport size photograph of labour/staff.
 - b) POLICE CLEARANCE CERTIFICATE (PCC) not older than 1 year.
 - c) 2 Nos.- ID proof of the labour/ staff.
 - d) Application for labour token/Pass on letter head of agency duly signed by contractor.
47. The contractor has to submit proof like copy of challan / bill etc. for purchasing the material from genuine source / authorized dealer / manufacturer without any hiding / omitting.

Assistant Engineer(E)-P
DED-203,C.P.W.D.,
Sena Bhawan, New Delhi

Executive Engineer(E)
DED-203,C.P.W.D.,
Sena Bhawan, New Delhi

ADDITIONAL TERMS & CONDITIONS OF CONTRACT

- 1) The work is to be carried as per the direction & satisfaction of Engineer-in-charge.
- 2) All the material brought at site shall have to be got approved from the Engineer-in-charge before use at site.
- 3) No T&P shall be issued by the department.
- 4) No claim for idle labour will be entertained by the department.
- 5) Any damage done to the existing structure shall be restored to its original shape & colour by the contractor for which nothing extra shall be paid.
- 6) The work shall be carried out in close co-ordination with other agencies like civil wing of this department / Client Department.
- 7) The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning, as may be required by the department. The term complete installation shall not only mean major luminaires and mounting equipment covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been specifically mentioned in bill of quantity in the tender document. However, major equipment not covered in the scope of the work and required subsequently as an additional feature, not covered in the contract specifications, shall be paid extra. The decision of the engineer-in-charge in the matter shall be final and binding upon the contractor.
- 8) The rates shall be inclusive of all taxes, levies, duties, cartage etc.
- 9) The contractor shall have to adopt all the safety precautions while executing the work, therefore no claim shall be entertained by the department in case of any accident, while carrying out the work.
- 10) It shall be deemed that contractor has satisfied himself about the nature and location of the work, general and local conditions, particularly those pertaining to transport, handling and storage of materials, general ground conditions and environment / temperature. before Biding. The department shall not be responsible for lack of such knowledge and also the consequences thereof. The information and site data shown in the drawings and mentioned herein and elsewhere in the Bid document are being furnished for general information and guidance only. The Engineer-in-Charge shall in no case be responsible for the accuracy there of or any interpretations/or conclusions drawn there from by the contractor and nothing extra shall be paid even if the site conditions/information are different or otherwise incorrect at it is presumed that the contractor has satisfied himself for all possible contingencies, situations, bottlenecks and acts of coordination which may be required between different agencies.

- 11) The Engineer-in-Charge will be at liberty to take respective sample(s) of each item of Schedule of Quantity in any approved laboratory as decided by him. The sample for testing will be provided by the contractor. All expenditure required to be incurred for taking sample, packing etc. will be borne by the contractor himself. The testing charges shall be paid by the contractor and shall be re-reimbursed on passing of the sample and shall not be re-reimbursed on failure of the sample. In case any sample particular lot fails in testing, the contractor will be bound to replace the entire lot with fresh removal of prescribed specification and the rejected material will be returned to the contractor only after fresh material is supplied and it shall be tested again.
- 12) Removal of rejected materials: In case any materials/Substandard work are rejected by the Engineer in-Charge, the same shall be removed from the site within 48 hours, failing which the same may be got removed by the Engineer-in-charge at the risk and cost of the contractor. The decision of the Engineer-in-charge shall be final and binding in this regard.
- 13) In case of any dispute regarding rejection of quality of materials, the decision of the Engineer-in Charge will be final and binding upon the contractor.
- 14) All taxes applicable at prevalent rates shall have to be paid by the contractor himself and the rates quoted by him shall include these taxes and nothing extra on this account shall be payable.
- 15) The rates for different items of work shall apply for all heights and depths, leads and lifts including all labour & materials and other aspects involved in the execution of work unless otherwise specified in the agreement or specifications applicable to the agreement.
- 16) Any damage done by the contractor to any existing work during the course of execution of the work shall be made good by him at his own cost.
- 17) Articles manufactured by the reputed firms and approved by Engineer-in-Charge shall only be used. Only articles classified, as 'first quality' by the manufacturer shall be used unless otherwise specified. In case articles bearing ISI certification are not available in the market, quality of samples brought by the contractor shall be judged by standards laid down in the relevant CPWD specifications. For the items not covered by CPWD specifications relevant BIS standards shall apply. The sample of materials to be brought to site for use in work shall be got approved from the Engineer-in-Charge before actual execution of work.
- 18) The quantities of any item shall not be exceeded beyond the agreement quantities without prior permission of Engineer-in-Charge.
- 19) Statutory applicable recoveries such as on account of GST, Income tax, Surcharge, Construction Worker's Welfare Cess etc. as applicable from time to time shall be made from the gross amount of Running A/c Bill and Final Bill of the contractor.
- 20) The contractor shall make his own arrangement for getting the permission for entry of trucks carrying materials for the site from the traffic police / Client.

- 21) Any reference made to any Indian Standard Specifications in these documents, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian Standards applicable to the work at site.
- 22) The contractor will not have any claim in case of any delay by the Engineer-in-Charge in removal of trees or shifting, removing of telegraph, telephone or electric lines (overhead or underground), water and sewer lines and other structure etc., if any which may come in the way of the work. However, suitable extension of time can be granted to cover such delay.
- 23) The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipment's left out of his work and dress the site around the building to the complete satisfaction of the Engineer-in charge before the work is treated as completed.
- 24) The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fee and charges which may be liable. The contractor shall give due notices to municipality police and /or other authorities that may be required under the law/rules in force the area and obtain all requisites licenses for temporary obstructions/enclosures and pay all charges which may be liable on account of his execution of the work under the Agreement. Nothing shall be payable on this account.
- 25) No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any permanent / temporary set up for his staff in the campus.
- 26) Contractor has to provide drinking water facility at site for the workers deputed by him.
- 27) The Contractor shall give due notices to Municipality, Police and/ or other authorities that may be required under the law/ rules under force and obtain all requisite licenses for temporary obstructions/ enclosures and pay all charges which may be liable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.
- 28) The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, labour laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well as State Govt.
- 29) Any other inventory added during the contract period to any of the installations of these areas shall also be maintained within the scope of work without any extra cost.

- 30) The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work or wherever necessary so as to avoid accidents. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accidents occurring due to any cause. The 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.
- 31) Before start of work, the Contractor keeping in view that the space available is limited, shall inspect the site for material yard, other storage, steel fabrication yard, site laboratory and seek formal approval of the Engineer-in-charge. No space will be available at site of work for the fabrication of steel / aluminum work grating, railing, etc. The Contractor should make his own arrangement for the same in his workshop. Nothing shall be paid for the carriage of such manufactured items from workshop to site of work. The Contractor shall not stack building material / malba on local municipality land or road or on the land owned by any other authority and in case of failure to do so, he shall face penal action as per the rules, regulation and bye-laws of the said body or authority. The Engineer-in-Charge shall be at liberty to recover the amount due but not paid to the concerned authorities on account of the above from any amount due to the Contractor including amount of the security deposit or retention money in respect of this Contractor or any other Contract.
- 32) In order to adhere to the Committed Program and requirement of client department, the work shall be carried out in more than one shift and Contractor will deploy the resources accordingly. No extra claim on this account shall be entertained. Contractor should give advance notice in writing to Engineer-in-charge for doing any work in odd hours and arrange permission accordingly
- 33) The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and waterways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused by the execution of the work or by traffic brought thereon by the contractor. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants/users of adjoining buildings.
- 34) All necessary test as per the NIT/CPWD specifications/ relevant BIS codes shall be carried out on all other materials whether ISI marked or otherwise, from CPWD lab or from approved lab as directed by Engineer-in-charge. Wherever NIT/CPWD specifications/ relevant BIS codes do not specify the frequency of tests the same shall be carried out as per the direction of the Engineer- incharge. Payment shall be borne by the contractor.

- 35) The contractor shall be responsible for the watch and ward of the building, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installation and thereafter till the building is physical completed and handed over. No Extra Payment Shall Be Made In This Account.
- 36) The contractor shall at his risk and cost, make all arrangements and provide all facilities as per Engineer-in-Charge may require for collecting and preparing the require number of samples for such test at such time and to such place or places as may be directed by the Engineer in charge and bear all charge.
- 37) No claims of the labourers shall be entertained by the Department including that of providing employment, regularization of services etc. & the contractor shall be responsible for any court case by his workers.
- 38) Safety codes and Labour Regulations
- In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for safety provision as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instructions issued from time to time. Failure to provide such safety requirement would make the firm liable for penalty as decided by Engineer-in-charge. The agency will be solely responsible for any damages, mishap or injury/death of their staff deployed at the site.
- 39) The Contractor shall submit Technical Data Sheet & Drawings, Layout Drawings & Single Line Diagram for approval of the Department before supply of material at site. All drawings shall be drawn on CAD format and submit 2 sets on A-3 / A-2 size in hard copies, duly signed & stamped by the contractor, drawings submitted by email shall not be entertained & shall be rejected.
- 40) The contractor is advised to visit the site of work, to check location/ environment / accessibility of approach route etc. and read NIT thoroughly to assess quantum of work, Technical specifications items of work, and acceptable makes etc and inform Engineer-in-charge about any discrepancies if any, before submission of bid. No request of change in technical specifications/ makes / Item etc. shall be entertained after submission of bid and award of work.
- 41) The contractor shall provide proof of purchase of all major items Or as per direction of Engineer in charge, from OEM / Authorized dealer before claiming payment and shall submit Guarantee / warranty as per OEM, but minimum of a period of One Year from the Date of Completion, from OEM/ Authorized dealer in Delhi.
- 42) The contractor shall submit Technical Data Sheet, Drawings etc. & Make and Model No. etc. for approval by the department Or as per direction of Engineer in charge before supply of material at site.

- 43) In case of non availability of model no. as per agreement, available model no. with higher specification and price list etc. of the same make may be acceptable but lower model no. and price list shall not be acceptable.
- 44) Quality Assurance Programme / Inspection shall be as per CPWD Specification.
- 45) Completion Plan consisting of Single Line Diagram / schematic plan & Layout Plan etc. shall be submitted at the time of submission of Final Bill, failing which recovery 1% of the Tendered amount subject to minimum amount of Rs.10,000/- affected from final bill.
- 46) All the LED bulbs/LED fittings shall be guaranteed for a period of 5 Years as per Warranty / Guarantee letter by OEM / Authorized Dealer in Delhi from Date of Completion failing which recovery @2% of Tendered Amount subject to minimum amount of Rs. 20,000/- affected from final bill.
- 47) The work involves addition, alteration, modification of the existing electric equipments, gadgets , services etc. The contractor should verify the compatibility of the new items as per acceptable makes in the tender and nothing extra shall be paid on account of any changes, modifications, addition, alteration to the existing equipments/ makes already installed at site, if required
- 48) Bidder should comply order no. P-45021/2/2017-PP (BE-II) Dt. 4 June 2020 issued by Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade which is available on website (<https://assets-bg.gem.gov.in/resources/pdf/ppp-mII-order-dated-04-06-2020.pdf>) & CE- CSQ (E), New Delhi OM No. 113 Dt. 1 April 2022, however, the L1 Contractor shall submit undertaking after award of work and before supply of material (as per list of preferred make) that all the material used at site comply the above referred order.
- 49) All switch gears, Accessories, Bus Bar Connection, Control Wiring etc. shall be assembled at Factory of the LT Panel manufacturer and LT Panel / Control Panel as per List of preferred makes for equipment & material shall be offered for online / offline inspection at the factory before delivery.
- 50) GA Drawings and Single Line Diagram of Panel and any other items as per Engineer In Charge along-with summary of switch gear and accessories shall be prepared in CAD format by the panel manufacturer and shall be submitted for approval by the Department.

Assistant Engineer(E)-P
DED-203,C.P.W.D.,
Sena Bhawan, New Delhi

Executive Engineer(E)
DED-203,C.P.W.D.,
Sena Bhawan, New Delhi

LIST OF MAKES

S.No.	Item	Makes
1	Double skin central evaporative cooling plant/ Fan Air	System air India / Edge tech Air Systems / Hindustan Airtech / Casvent Aircon/Zeco/ System Air/Waves / Humidin / Brightflow
2	DIDW backward curved fan/ Fan Air	Crompton /Krugger/Nicotra/Humidin
3	Air Washer and accessories	Zeco/Casvent Aircon/ Edgetech/ VTS/ Flaktwood/ Revo/ Wasef/ Daikin
3	TEFC motor	CG Power / Siemens / Bharat Bijlee
4	DOL/Star-Delta	L&T / Schneider Electric / BCH Electric
5	Double skin kitchen exhaust air scrubber system/ Fan Air	System air India / Edge tech Air Systems / Hindustan Airtech / Casvent Aircon/Zeco/ System Air/Waves / Humidin / Brightflow
6	C-PVC Pipe	Astral / Ashirvad / Supreme Industries
7	GSS Sheet metal	Tata / Jindal (Hissar) /Sail
8	Fire Resistant Coating for Duct	3M/Hilti/Ameetuff/ Prom-at
9	GI/MS Duct/ GI volume control duct damper	Tata / Jindal / Hissar /Sail
10	PVC insulated & PVC sheathed/ XLPE 1.1 KV grade Aluminum / Copper Conductor Armoured / Unarmoured Cable / Control cable / Flexible multicore copper cable / Copper conductor cable	KEI / Polycab / Havells / Finolex / RR Kabel
11	LED Lights	Philips / LT / Regent
12	Exhaust fan	USHA Crisp / Orient / Bajaj / Crompton
13	K-Type, Wet Chemical Stored pressure type Fire Extinguishers	Life Guard/ Kanex/ Agni/ Safex
14	wall fan	Havells /Crompton /Orient /Usha
15	Hand Dryer	AVRO HD-16 or equivalent inAVRO/EURONICS
16	Exhaust Air Blower DIDW Backward Curved	Casvent Aircon/Zeco/ System Air/Waves / Humidin
17	Fresh Air Pre filter	Camfil / Dyna / Spectrum Filtration
18	Paper fill pads	Munters (CELdek) / Kuul / Humi Air Systems Pvt. Ltd.
19	Submersible pump	Kirloskar Brothers Ltd. / KSB / Crompton
20	M S CONDUIT	NIC/BEC/RMCON/AKG
21	DLP / PVC trunking	Legrand / M.K. / Honeywell
22	Fresh air fan	Usha/Havells/Khaitan/CG/Orient

Note:

1. After award of work, the firm will be required to submit the detailed proposal for materials / equipments indicating models and their make for the items, which should be satisfying the NIT requirement. Only after the approval of the make & model of the materials/ equipments etc., firm will brought the material as per the approved model & make as applicable. The direction of the department shall be final & binding on the firm.
2. If make and model of any item is not mentioned, agency has to submit make and model for approval before procurement / execution of work. Decision of Engineer-in –charge shall be final in this case.
3. All material shall be ISI marked which ever applicable as per relevant IS code.

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Executive Engineer(E)
DED-203,C.P.W.D.,
Sena Bhawan, New Delhi

<u>Schedule of Work</u>					
Name of Work: - Providing wet scrubber system for kitchen exhaust & air washer for fresh air supply in Canteen at 4th floor, Niti Aayog, New Delhi.					
S. No.	Description of item	Qty.	Unit	Rate	Amount
	SH-I				
1	Supplying, Installation, Testing and Commissioning of factory assembled double skin central evaporative cooling plant having following specifications A. Air washer section comprising 50 mm thick pre-air filter made out from washable Aluminium wire mesh filter with 90 % down to 10 microns. B. Humidification section comprising of Wet pads 200 mm thick impregnated cellulose paper media (Celdec pads) with two (2) bend PVC eliminator, internal casing with blank off's of wet section in SS-304 construction. C. Fan Section comprising of belt driven, Double Inlet Double Width (DIDW) backward curved fan with outlet velocity less than or equal to 10 m/s and minimum efficiency of 70% Air Movement & Control Association International (AMCA) certified centrifugal fan suitable for required cfm at 50 mm WC static pressure. D. Totally Enclosed Fan Cooled (TEFC) motor of IE-3 class as required with pulley, belt. E. The unit shall be fabricated with frame work hollow extruded aluminium profile with 0.80 mm pre-coated GSS on outside and on inside complete with 25 mm thick Chloroflouro Carbon (CFC) free Polyurthane Frame (PUF) insulation of minimum 40 kg/cum density sandwiched in between inner and outer skins, SS -304 (18 SWG) Sump tank, 25mm C-PVC piping, make up, drain & quick fill and drain connection, Butterfly /Gate valves for pumps, make up, drain & quick fill and drain connections of sump, 2 no. Pumps of suitable capacity and necessary fittings, stand, anti vibration pads etc.as required. F. Starter panel DOL/Star-Delta suitable for operation of Blower motor & pump made out of 1.6 mm thick sheet steel powder coated enclosure comprising of over load protection relay, short circuit & single phasing protection, ON / OFF push buttons, ammeter, voltmeter, indicating lamps, MCB, contactor etc. (As per Specification of CPWD & direction of Engineer-in-charge) complete in all respect as per pre approved by Engineer-in-charge. a) 5000 CFM Capacity	1	Job	99192.00	99192.00
2	Supplying, Installation, Testing and Commissioning of factory assembled double skin kitchen exhaust air scrubber system having following specifications A. Primary Grease Filter section comprising 50 mm thick aluminium baffle type grease filters & Scrubber media comprising high efficiency PVC packing media	1.0	Job	362975.00	362975.00

	B. Double bank spray chamber comprising above having 90% saturation efficiency with GI intake louvers , SS spray header having multiple PVC nozzles for efficient washing of oil vapours , smoke. The chamber should have suitable space for proper air water contact & should be equipped with multi blade PVC mist eliminator with four (4) bend PVC eliminator equal to pad area to avoid moisture entry into fan section. C. Fan Section comprising of belt driven, Double Inlet Double Width (DIDW) backward curved fan with outlet velocity less than or equal to 10 m/s and minimum efficiency of 70% , Air Movement & Control Association International (AMCA) certified centrifugal fan suitable for required cfm at 50 mm WC static pressure. D. Totally Enclosed Fan Cooled (TEFC) motor of IE-3 class as required with pulley, belt. E. The unit shall be fabricated with frame work hollow extruded heavy duty aluminium, profile with 0.60 mm precoated GSS on outside and on inside complete with 25 mm thick Chloroflouro Carbon (CFC) free Polyurthane Frame (PUF) insulation of minimum 40 kg/cum density sandwiched in between inner and outer skins, profile with 0.60 mm GSS on inside, SS -304 (18 SWG) Sump tank, C-PVC piping, make up, drain & quick fill and drain connection, valves for pumps, Pumps of suitable capacity (minimum 1.5 HP) and necessary fittings, unit mounting stand, anti vibration pads etc.as required. F. Starter panel DOL/Star-Delta suitable for operation of Blower motor & pump made out of 1.6 mm thick sheet steel powder coated enclosure comprising of over load protection relay, short circuit & single phasing protection, ON / OFF push buttons, ammeter, voltmeter, indicating lamps, MCB, contactor etc. complete in all respect as per pre approved by Engineer-in-charge. a) 5000 CFM Capacity				
3	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in charge. The elevation area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.	60.0	Sqm	338.25	20295.00

4	Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
4.1	Thickness 0.80 mm sheet	40.0	Sq mtrs	1415.00	56600.00
5	Supplying and fixing of following thickness duly laminated aluminium foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.				
5.1	19 mm	15.0	Sq mtrs	810.00	12150.00
6	Supplying, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc in confirmation to SMACNA/IS and as per specifications complete etc. as required.	1.0	Sq mtrs	7580.00	7580.00
7	Supplying, Fixing, installation, testing and commissioning of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers in confirmation to SMACNA/IS and as per specifications complete etc. as required.	5.0	Sq mtrs	9623.00	48115.00
8	Providing and applying fire-resistant coating system on GI/MS ducts including surface preparation by cleaning, sanding and removing dust, oil, grease etc., and application of silicon epoxy-based fire-resistant base coat (DFT 300–350 microns) followed by water-based ceramic insulation top coat (DFT 200–250 microns), to achieve total dry film thickness of 500–600 microns, complete in all respects. The system shall be tested for Type A (fire inside) and Type B (fire outside) ducts as per BS 476 Part 24 with and without insulation under ISO 834 standard fire curve including all labour, materials, tools & plants, curing, wastage etc. complete as per direction of Engineer-in-Charge.	40.0	Sq mtrs	832.00	33280.00
9	Supplying and installing following size of perforated pre-painted M.S. cable trays Tee's with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
9.1	300 mm width X 50 mm depth X1.6 mm thickness	30.0	Mtrs	866.00	25980.00
10	Supply of following sizes of copper cables PVC sheathed PVC/XLPE insulated Copper conductor armoured cable of 1.1 KV grade conforming to IS:7098 part-1 / IS:1554 part-1 respectively & ISI marked.				
10.1	4 Core x 16 Sqmm XLPE copper cable	50.0	Mtr.	1534.00	76700.00

11	Supply of following sizes of PVC sheathed PVC/XLPE insulated Aluminium conductor armoured cable of 1.1 KV grade conforming to IS:7098 part-1 / IS:1554 part-1 respectively & ISI marked.				
11.1	3 Core x 6 Sqmm XLPE cable	100.0	Mtr.	140.00	14000.00
12	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.				
12.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	50.0	Mtr.	64.00	3200.00
13	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
13.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	100.0	Mtr.	53.00	5300.00
14	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.	100.0	Mtr.	50.00	5000.00
15	Supplying, installation, testing and commissioning of Bottom Opening recessed mounted clean room luminaire panel with LED (Light Emitting Diode)(600 mm x 600 mm) , IP65 rating , system power: 36 W, luminous flux of luminaire 3600 lm, color temperature 4000/5700 K, Neutral white, CRI $\geq$ 80, working with 230V constant current driver, direct light emission, Luminaire housing in CRCA, Polyester powder white-colored coat applied over a 5- stage pre-treatment opal diffuser for homogenous light distribution, electronic control gear, Protection class IP 65 with surge protection not less than 2KV , including connection with 3 x 1.5 sq.mm. PVC insulated FRLS PVC sheathed copper conductor in suitable size metal flexible/PVC sleeve, etc. as required as per site conditions. (Note:- The LED fittings should have 5 years guarantee for onsite replacement/ repairing of defective fittings from the OEM.)	12.0	Nos	11923.00	143076.00
16	LED Down lighter (SMD Type) (System lumen efficacy $\geq$ 105 < 120 lm/Watt) Supplying, Installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5°C to 40°C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F. $\geq$ 0.95, IP20, CRI $\geq$ 80, UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K /4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards. Manufactures				

	Word Mark/ Name Engraved/ Embossing/ Screen printing on housing 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 ≥ 105 and < 120 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) Powder coated die cast /Extruded aluminium Body including trim				
16.1	12 -15 watt	20.0	Nos	715.00	14300.00
17	Supplying, Installation of 450mm (18") sweep heavy duty metal body 900 rpm exhaust fan in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connections, testing, commissioning i/c dismantling etc as required.	2.0	Nos	4590.00	9180.00
18	Supplying, installation, testing and commissioning of K Type , Wet Chemical stored pressure type Fire extinguishers of 6 KG capacity made out of SS body fitted with discharge control valve and pressure gauge, filled with alkaline mixture comprising potassium and supplied complete with initial charge with ISI mark and wall bracket complete as required.	2.0	Nos	17937.00	35874.00
19	Supplying and fixing of wall mounted fan of 400 mm sweep along with all accessories on the existing surface/wall with necessary nuts & bolts i/c connection etc. as reqd.	5.0	Nos	3183.00	15915.00
20	SITC of S.S body wall mounted automatic Hand dryer (Hot & Cold), BIS Certified, having hand drying time not more than 10 sec, with auto cut-off feature, Touch-Free Infra-Red Activation, comprising Brushless technology Motor having minimum speed : 25,000 RPM $\pm 10\%$, Rated Power : 400 W - 1150W $\pm 10\%$, Protection Class: IPX4, Minimum Air Speed : 100 m/s, heating element for winter operation, UV lights for disinfection having minimum wavelength 280 nm, complete with all accessories, supporting arrangements as per site requirement, suitable for 230V single phase 50Hz supply etc as required.	4.0	Nos	22800.00	91200.00
21	Supplying, installation, testing and commissioning of 5000 CFM capacity exhaust air blower DIDW Backward Curved casing made out of GSS & impeller made out of MS powder coated, Belt Driven backward radial tip discharge design with outlet velocity less than or equal to 10 m/s and minimum efficiency of 65%, Air Movement & Control Association International (AMCA) certified fan suitable for required cfm at 50 mm WC static pressure, suitable for direct driven arrangement with minimum 3 HP / 4 Pole motor (IE2) of reputed make, common base frame, anti vibration pads, Motor Pulley, Fan Pulley, Belt, belt guard, bird protection mesh at the outlet of blower unit & motor cover.	1.0	Set	57970.00	57970.00

22	Supplying & replacement of Fresh air pre filters of size 610 x 610 x 50 mm thick in HDPE wire mesh construction housed in GI frame having 90 % down efficiency to 10 microns particles in existing air washer including installation, testing and commissioning (i/c credit for dismantled material) etc. complete as required at site.	1.0	Job	4277.00	4277.00
23	Supplying & replacement of Air cooling paper fill pads made out of 200 mm thick impregnated cellulose paper media (Celdec pads) of size 1200 x 900 mm with two (2) bend PVC eliminator having proper water distribution arrangement in existing air washer including installation, testing and commissioning (i/c credit for dismantled material) etc. complete as required at site.	1.0	Job	6416.00	6416.00
24	Supplying & replacement of Submersible pump with suitable size piping set , V-belt, Plummer block & bearing assembly with new one in existing air washer including installation, testing and commissioning (i/c credit for dismantled material) etc. complete as required at site.	1.0	Job	8555.00	8555.00
SH-I Total					11,57,130.00
SH-II Credit Item					
25	Dismantling & Credit of following existing fittings, ducting & other E&M installations from existing kitchen area including buy back of the same etc as reqd at site.				
25.1	Damaged/Rusted duct	15.0	Kgs.	-40.00	-600.00
25.2	Exhaust air blower fan with motor	1.0	Set	-7500.00	-7500.00
25.3	Assorted Downlighter Fittings	20.0	Nos.	-25.00	-500.00
25.4	Assorted LED Tube Fittings	12.0	Nos.	-25.00	-300.00
25.5	Metal Exhaust Fans	2.0	Nos.	-300.00	-600.00
25.6	Wall Fans	5.0	Nos.	-150.00	-750.00
25.7	Hand Dryer exhaust air blower DIDW Backward Curved	4.0	Nos.	-300.00	-1200.00
25.8	Aluminium Conductor Cable	20.0	Mtrs.	-200.00	-4000.00
SH-II TOTAL					-15,450.00
Grand Total SH-I +II					11,41,680.00
Say Rs.					11,41,680.00

Note: If contractors' quoted rates come below the Estimated cost put to tender, then the Contractor's abatement will not apply on Item No-25.1 to 25.8 of SH-II

Assistant Engineer (E)-P
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