

	eTendering System Government of NCT of Delhi Tender Details	Date : 21-Oct-2025 04:23 PM  Print																																				
Basic Details																																						
Organisation Chain	Delhi Technological University																																					
Tender Reference Number	DTU.EC/00185/23-24/Electrical																																					
Tender ID	2025_DTU_280069_1	Withdrawal Allowed	Yes																																			
Tender Type	Open Tender	Form of contract	Works																																			
Tender Category	Works	No. of Covers	2																																			
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No																																			
Payment Mode	Offline	Is Multi Currency Allowed For BOQ	No																																			
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No																																			
Payment Instruments		Cover Details, No. Of Covers - 2																																				
Offline	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>S.No</th> <th>Instrument Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Demand Draft</td> </tr> <tr> <td>2</td> <td>R-T-G-S</td> </tr> <tr> <td>3</td> <td>FDR</td> </tr> <tr> <td>4</td> <td>ECS</td> </tr> <tr> <td>5</td> <td>NEFT</td> </tr> </tbody> </table>	S.No	Instrument Type	1	Demand Draft	2	R-T-G-S	3	FDR	4	ECS	5	NEFT	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Cover No</th> <th>Cover</th> <th>Document Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fee/PreQual/Technical</td> <td>.pdf</td> <td>Scanned copy of receipt of deposition of original EMD in DTU</td> </tr> <tr> <td></td> <td></td> <td>.pdf</td> <td>Scanned copy of Valid Electrical License</td> </tr> <tr> <td></td> <td></td> <td>.pdf</td> <td>Copy of Registration with CPWD MES, BSNL and other state Govt. Other experienced contractors</td> </tr> <tr> <td></td> <td></td> <td>.pdf</td> <td>Scanned copy of Solvency or Net worth Certificate from Banker/CA respectively.</td> </tr> <tr> <td></td> <td></td> <td>.pdf</td> <td>An Undertaking that they will submit documents from OEM of the equipments as per S.No. 14 above</td> </tr> </tbody> </table>	Cover No	Cover	Document Type	Description	1	Fee/PreQual/Technical	.pdf	Scanned copy of receipt of deposition of original EMD in DTU			.pdf	Scanned copy of Valid Electrical License			.pdf	Copy of Registration with CPWD MES, BSNL and other state Govt. Other experienced contractors			.pdf	Scanned copy of Solvency or Net worth Certificate from Banker/CA respectively.			.pdf	An Undertaking that they will submit documents from OEM of the equipments as per S.No. 14 above
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		.pdf	GST Registration Certificate and Latest upto date due GST return
		.pdf	Any other Document as specified in the NIT
2	Finance	.xls	BOQ

Tender Fee Details, [Total Fee in ₹ * - 0.00]				EMD Fee Details			
Tender Fee in ₹	0.00			EMD Amount in ₹	20,271	EMD Exemption Allowed	No
Fee Payable To	Nil	Fee Payable At	Nil	EMD Fee Type	percentage	EMD Percentage	2.0%
Tender Fee Exemption Allowed	No			EMD Payable To	Registrar	EMD Payable At	Delhi

[Click to view modification history](#)

Work / Item(s)					
Title	Supply installation testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU Delhi				
Work Description	Supply installation testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU Delhi				
Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	Yes				
Tender Value in ₹	10,13,537	Product Category	Electrical Works	Sub category	retrofit kit for emission, control equipment
Contract Type	Tender	Bid Validity(Days)	180	Period Of Work(Days)	90
Location	Delhi Technological University Delhi	Pincode	110042	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	Engineering cell conference Room
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates			
Publish Date	21-Oct-2025 04:30 PM	Bid Opening Date	30-Oct-2025 03:30 PM
Document Download / Sale Start Date	21-Oct-2025 04:30 PM	Document Download / Sale End Date	30-Oct-2025 03:00 PM
Clarification Start Date	21-Oct-2025 04:30 PM	Clarification End Date	30-Oct-2025 03:00 PM
Bid Submission Start Date	21-Oct-2025 04:30 PM	Bid Submission End Date	30-Oct-2025 03:00 PM

Tender Documents				
NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf		682.94

			Supply installation testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU Delhi	
Work Item Documents	S.No	Document Type	Document Name	Description
	1	BOQ	BOQ_369681.xls	Supply installation testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU Delhi
				Document Size (in KB) 290.00

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	akshaygarg@dtu.ac.in	AKSHAY GARG	Akshay Garg
2.	admin6@gmail.com	A K PANDEY	ASHOK KUMAR PANDEY
3.	aksrivastava@dce.ac.in	Amit Srivastava	AMIT SHRIVASTAVA

Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Stage to disclose Bid Details in Public Domain	Technical Bid Opening
BoQ Comparative Chart model	Normal	BoQ Comparative chart decimal places	3
BoQ Comparative Chart Rank Type	L	Form Based BoQ	No

Tender Inviting Authority

Name	Executive Engineer
Address	Delhi Technological University Shahbad Daulatpur Delhi 42

Tender Creator Details

Created By	AKSHAY GARG
Designation	A E Civil
Created Date	21-Oct-2025 04:03 PM

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Name of Work: Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU, Delhi

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NIT APPROVAL

Name of Work: Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU, Delhi

NIT No. DTU/EnggCell/00185/23-24/Elect.

Estimated Cost :- **Rs. 10,13,537/-**

Earnest Money :- **Rs. 20271/-**

Security Deposit :- **@ 2.5% of Tender Value**

Performance Guarantee :- **@ 5% of Tender Value**

Time allowed :- **03 Months**

NIT approved amounting to Rs.10,13,537/- (Rs. Ten Lakh Thirteen -Three Thousand Five Hundred Thirty-Seven Only).

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

The Chief Project Officer, Engineering Cell, DTU, Delhi, E-Mail:-CPO@dtu.ac.in on behalf of DTU invites percentage rate bid from approved and eligible contractors registered with CPWD in appropriate class of composite category or those of appropriate list of MES, BSNL and other state Govt. Departments or other experienced contractors who deals in works of “SITC of retrofit kit for emission, control equipment for diesel generators.” for the following works:-

S. No	NIT No.	Name of work & Location	Estimated Cost Put to tender	Earnest Money	Period of Completion	Last date and time of submission of bid, original EMD, copy of receipt for deposition of original EMD, and other documents as specified in the notice.	Time and date of opening of EMD and commercial bid.
1	DTU/Engg.Cell/00185/2023-24/Elect	Supply installation testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU Delhi	Rs. 10,13,537/-	Rs. 20271/-	03 Months	30/05/25 Upto 15:00 hrs on	30/05/25 15:30 Hrs on

The eligibility criteria mentioned as below:

1. The firms who fulfill the following requirements shall be eligible to apply. (Joint ventures are not accepted):
 - (A) The approved and eligible contractors registered with CPWD in appropriate class of composite category.

OR
 - (B) Those of appropriate list of MES, BSNL and other state Govt. Departments in appropriate class and should have satisfactorily completed the similar nature works as mentioned below during the last seven years ending last day of month previous to the one in which tenders are invited: -
 - i) Three similar works each costing not less than the amount equal to 40% of the estimated cost put to tender i.e. **Rs. 4,05,414/-**

Or
 - ii) Two similar works each costing not less than the amount equal to 60% of the estimated cost put to tender i.e. **Rs. 6,08,122/-**

Or
 - iii) One similar completed work of aggregated cost not less than amount equal to 80% of the estimated cost put to tender i.e. **Rs. 8,10,829/-**

Similar nature works means works of “SITC of retrofit kit for emission, control equipment having a minimum specified PM(2.5) capturing efficiency of at least 90%, CPCB recognized labs, in any Govt / PSU.”

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to last date of receipt of application for tender.

OR

- (C) Other experienced contractors Who have satisfactorily completed the similar nature works as mentioned below during the last seven years ending last day of month previous to the one in which tenders are invited:-

- i) Three similar works each costing not less than the amount equal to 40% of the estimated cost put to tender i.e. **Rs 4,05,414/-**
Or
ii) Two similar works each costing not less than the amount equal to 60% of the estimated cost put to tender i.e. **Rs. 6,08,122/-**
Or
iii) One similar completed work of aggregated cost not less than amount equal to 80% of the estimated cost put to tender i.e. **Rs. 8,10,829/-**

Similar nature works means works of “SITC of retrofit kit for emission, control equipment having a minimum specified PM(2.5) capturing efficiency of at least 90%, CPCB recognized labs, in any Govt / PSU.”

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to last date of receipt of application for tender.

- (a) Should have average annual financial turnover of 50% of the estimated cost during the last three consecutive years ending 31st March 2024. (Scanned copy of Certificate from CA to be uploaded as per Performa annexed)
- (b) Should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 31st March 2024. (Scanned copy of Certificate from CA to be uploaded as per Performa annexed)
- (c) Should have a Solvency of 40% of the estimated cost put to tender certified by his banker or Net worth of minimum 10% of the estimated cost put to tender issued by certified CA (Scanned copy of original solvency/net worth certificate to be uploaded as per Performa annexed)
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 <https://govtprocurement.delhi.gov.in>.
5. The EMD may be in the form of the Demand Draft through ECS/RTGS/FDR/NEFT Receipt of a scheduled bank issued in favour of Registrar, Delhi Technological University, Delhi or may be submitted through ECS/RTGS/FDR/NEFT direct to receipt account of Registrar DTU as detail given below.

Bank details for submission of EMD through RTGS/NEFT: -	
DTU EMD Account No.	30875679275 (Registrar, DTU)
Name of Bank	State Bank of India
Bank Address	DCE Campus, Shahbad Daulatpur, Bawana Road, Delhi-110042.
IFSC CODE	SBIN0010446
BRANCH CODE	10446
MICR CODE	110002438
SWIFT CODE	SBININBB544

6. This amount shall be refunded in case of rejection of the bid. Photocopy of the DD/FDR if applicable, is required to be scanned and uploaded along with the bid, and the original DD/FDR or proof of ECS/RTGS/NEFT shall be sent to DTU up to Last Date and Time for receipt of tenders through e- procurement solution.
7. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
8. The intending bidder must have valid class-III digital signature to submit the bid.
9. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
10. Contractor can upload documents in the form of **JPG** format and **PDF** format.
11. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink

colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells 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 Eligibility/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 Eligibility/Technical bid shall be communicated to them at a later date.
13. When bids are invited in three stage system and if it is desired to submit financial bid then it shall be mandatory to submit financial bid. If not submitted, then the bid submitted earlier shall become invalid.
14. 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.
15. **The bidder/tenderer has to submit following documents, along with the performance guarantee after the acceptance of tender.**
 - a) **Authorization certificate (Issued by the original equipment manufacturer of retrofit kit for emission, control equipment for diesel generators make PECMA/Sterling/ EEC).**
 - b) **The OEM (as in Sr. No. (a) above) is unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Maintenance/ Comprehensive Maintenance Contract for the useful life of the System and OEM (as in Sr. No. (a) above) is provide all the spares required for healthy functioning of the equipment for at least seven years from the date of supply of Equipment.**

Note: In case of Non-Submission of undertaking from OEM (as in Sr. No. (a) above) at the time of submission of performance guarantee within prescribed time limit, his bid shall summarily be rejected.
16. **List of Documents to be scanned and uploaded within the period of bid submission:**
 - a) Copy of deposition of original EMD in DTU.
 - b) Copy of Valid Electrical License. However, the contractors will be allowed to participate in tender with an undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate contractors having valid electrical license of eligible class.
 - c) (I) Copy of Registration with CPWD in appropriate class of composite category.

OR

(II) Copy of Registration in appropriate class of MES, BSNL and other state Govt. Departments who deals in "Building and Road Work" along with Certificates of Work Experience (Shall be issued by the Executive Engineer or above level officer on the letter head of organization duly stamped) as mentioned at Para (B) in the eligibility criteria as per proforma annexed.

OR

(III) Other experienced contractors who deals in works of "SITC of retrofit kit for emission, control equipment for diesel generators." along with following documents as mentioned at Para (C) in the eligibility criteria as per proforma annexed: -
 - i. Certificates of Work Experience. (Shall be issued by the Executive Engineer or above level officer on the letter head of organization duly stamped.)
 - ii. Certificate of Financial Turnover & Loss/Profit statement from CA.
 - iii. Solvency or Net Worth Certificate from Banker/CA respectively.
 - d) An Undertaking that they will submit documents from OEM of the equipments as per S.No. 14 above.
 - e) OEM credentials are to be consider at par if OEM authorized to bidder.

- f) GST Registration Certificate and Latest upto date due GST return.
- g) Any other Document as specified in the NIT

17. **If any of above mentioned documents are not uploaded, the tender will not be considered.**
18. The price of only those contractors will be opened whose application are approved by the competent authority. Further details can be seen at: <https://govtprocurement.delhi.gov.in>

CPWD-6 FOR e-TENDERING

Percentage rate bids are invited on behalf of DTU from the approved and eligible contractors registered with CPWD in composite category or those of appropriate list of MES, BSNL and other state Govt. Departments or other experienced contractors who deals in works of “**SITC of retrofit kit for emission, control equipment for diesel generators.**” for the following work (S):-

Name of Work: - Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU, 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.10,13,537/-**. This estimate, however, is given merely as a rough guide.
- 1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:
 - 1.2.1 **Criteria of eligibility for Submission of bid documents**
As per details mentioned in **Information and Instructions for Bidders at page No.3 - 5**
 - 1.2.2 **To become eligible for issue of bid, the bidder shall have to furnish an affidavit as under:-**
“I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Performance Guarantee.” (Scanned copy to be uploaded at the time of submission of bid)
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD –7 (or other standard form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **03 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. i) The site for the work is available.
OR
5. The bid document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form - 2020 can be seen on website <https://govtprocurement.delhi.gov.in> free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted, then the bid submitted earlier shall become invalid.
9. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited alongwith bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will 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 i/c Provident Fund code no. if applicable and also ensure the compliance of aforesaid provisions by the sub contractors for the said work and Programme Chart (Time and Progress) within the period specified in schedule F.
10. 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 bidder 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.
11. The competent authority on behalf of the DTU 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.
12. 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 to rejection.
13. The competent authority on behalf of DTU 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.
14. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture / Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
15. 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.
16. The bid for the works shall remain open for acceptance for a period of **Thirty (30) days** from the date of opening of bids in case of single bid system. If any bidders withdraw his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or

remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.

17. 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 01 (One) Month 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 there to.
 - b) Standard C.P.W.D. Form 7 or other standard CPWD Form as applicable.
18. The contractor shall quote his rates keeping in mind the specifications; terms & conditions, particular specifications, special conditions, statutory rules & regulations etc. and nothing shall be payable extra whatsoever unless otherwise specified.
19. In case of any difference / ambiguity between English & Hindi versions, English version shall prevail.
20. The department shall deduct TDS on account of Income Tax on the value of work done from each bill of the contractor as per prevailing Government instructions/orders. In lieu, the department shall issue a certificate of deduction of the tax at source to the contractor, in relevant form.
21. Engineer-in-Charge shall deduct TDS on account of GST as per prevailing Government instructions/orders from the total payment made to contractor in pursuance of this contract. In lieu, the department shall issue a certificate of deduction of the tax at source to the contractor, in relevant form. This TDS shall also be deducted on advance payment to be adjusted in future bills and on the amount of cost escalation. The TDS certificate shall be issued by the Engineer-in-Charge to the contractor in required form within specified days from the end of the month in which tax has been deducted.
22. The department shall deduct labour Cess @ 1% on the value of work done from each bill of the contractor as per prevailing Government instructions/orders. In lieu, the department shall issue a certificate of deduction of the tax at source to the contractor, in relevant form.

In the tender document, the word "CPWD" shall include "DTU (GNCTD)" wherever exists.

**GOVERNMENT OF NCT OF DELHI
Delhi Technological University**

Percentage Rate Tender & Contract for Works

(A) Tender for the work of:

Name of Work:- Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU, Delhi

NIT No.:-DTU/Engg.Cell/00185/2023-24/Electrical

- (i) To be submitted online by **15.00 hrs. upto****upload at** <https://govtprocurement.delhi.gov.in>
- (ii) To be opened online in presence of tenderers who may be present at 15:30 Hrs on in the O/o Chief Project Officer, Engineering Cell, DTU, Delhi.

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, clause 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 documents for the work.

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

We agree to keep the tender open for **Seventy-five (75) days** from the date of opening of eligibility/technical bid in case tenders are invited on Single bid system for specialized work and not to make any modification in its terms and conditions.

A sum of Rs.20271/- is hereby forwarded in cash/receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee (as per detail given in CPWD-6) issued by a scheduled bank as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, **I/We shall be debarred for participation in the re-tendering process of the work.** I/We agree that the said DTU 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 DTU or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

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

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

Dated:

Signature of Contractor

Witness:

Postal Address.....

Address:

Occupation:

ACCEPTANCE

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

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

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

For & on behalf of DTU

Dated:

Signature.....

LETTER OF TRANSMITTAL
(For NON CPWD contractors and other experienced contractors)

[On the Letterhead paper of the Tenderer, or partner Responsible including full Postal address, telephone no., fax no. and E-Mail and cable address]

No. -----

Date:

To,

Chief Project Officer,
Delhi Technological University,
Shahbad Daulatpur, Delhi-
110042.

Name of Work: Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU, Delhi

Sir,

Having examined the details given and bid document for the above work, I / We hereby submit the relevant information.

1. I / We hereby certify that all the statements made and information supplied in the enclosed forms A to D and accompanying statement are true and correct.
2. I / We have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I / We submit the requisite certified solvency certificate and authorize the Chief Project Officer, Delhi Technological University, Shahbad Daulatpur, Delhi-110042 to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I / We also authorize Chief Project Officer, Delhi Technological University, Shahbad Daulatpur, Delhi-110042.
4. To approach individuals, employers, firms and corporation to verify our competence and general reputation.
5. I / We submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following works:

Sl. No.	Name of work	Certificate from

Enclosures:

Seal of bidder

Date of submission

SIGNATURE(S) OF BIDDER(S)

FINANCIAL INFORMATION

I. Financial Analysis –

- (a) Details to be furnished duly supported by figures in balances sheet / profit & loss account for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).
- (b) The information supplied shall be the annual turnover on construction work of the bidder in term of the amount billed to client for each year for work in progress or completed.

Financial Year	2024-23	2023-22	2022-21	2021-20	2020-19
Gross Annual turnover on works					
Profit / Loŝs **					

II. Financial arrangements for carrying out the proposed work.

III. Solvency Certificate from Bankers of the bidder in the prescribed Form "B".

* Amount to be filled in all columns ** Loss to be shown in with (-) sign

Signature of Bidder(s).

Signature of Chartered Accountant with Seal.

FORM OF BANKER'S CERTIFICATE FROM A SCHEDULED BANK

This is to certify that to.. the best of our knowledge and information that M/s / Sh.....having marginally noted address, a customer of our bank are/is respectable and can be treated as good for any engagement upto a limit of Rs.....(Rupees.....).

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature) For the Bank

NOTE:

- (1) Banker's certificates should be on letter head of the Bank.
- (2) In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

FORM FOR CERTIFICATE OF NETWORTH FROM CHARTERED ACCOUNTANT

"It is to certify that as per the audited balance sheet and profit & loss account during the financial year....., the Net Worth of M/s.....(Name & Registered Address of individual /firm/company), as on(the relevant date) is Rs.....after considering all liabilities. It is further certified that the Net Worth of the company has not eroded by more than 30% in the last three years ending on (the relevant date)."

Signature of Chartered Accountant.....

Name of Chartered Accountant.....

Membership No. of ICAI.....

Date and Seal.....

NOTE:

- 1. In case of partnership firm, certificate should include names of all partners as recorded with the Chartered Accountant.
- 2. The certificate should not be more than 6 months old.

**DETAILS OF ALL WORKS OF SIMILAR-CLASS COMPLETED DURING THE
LAST SEVEN YEARS**

1	S. No.
2	Name of work / project and location
3	Owner or sponsoring organization
4	Cost of work in crores of rupees
5	Date of commencement as per contract
6	Stipulated date of completion
7	Actual date of completion
8	Litigation / Arbitration cases pending / in progress with details *
9	Name and address / telephone number of officer to whom reference may be made
10	Remarks i/c grant of extension of Time with/without levy detail
	Whether similar works have been executed on back to back basis (Yes/No)

* Indicate gross amount claimed and amount awarded by the Arbitrator

SIGNATURE OF BIDDER(S)

Correction - NIL

Insertion - NIL

Omission - NIL

Deletion - NIL

AE(P)

EE(E)

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "C"

1. Name of Work/Project & Location
2. Agreement No.
3. Estimated Cost
4. Tendered Cost
5. Value of Actual work done
6. Date of Start
7. Date of Completion
 - (i) Stipulated Date of Completion
 - (ii) Actual Date of Completion
8. Amount of Compensation levied for delayed completion, if any.
9. Amount of Reduced Rates Items, if any.
10. Performance/Quality of work.

Dated :

**Executive Engineer or Equivalent
Address & Phone No. :**

PROFORMA OF SCHEDULES

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

SCHEDULE 'A'

Schedule of quantities (Enclosed.)

As per Schedule attached

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S.No.	Description Of item	Quantity	Rates in figures & words At which the material will be charged to the contractor.	Place of Issue
1	2	3	4	5

-----NIL-----

(Material required for the work shall be arranged by the Contractor)

SCHEDULE 'C'

Tools and plants to be hired to the contractor.

S.No.	Description	Hire charges per day.	Place of Issue
1	2	3	4

-----NIL-----

SCHEDULE 'D'

Extra schedules for specific requirements / documents for the work, if any.

Attached as General Conditions and Particular Specification

SCHEDULE 'E'

Reference to General Conditions of contract.

General Conditions of Contract for CPWD Works-2020 as amended/ modified up to last date of submission of bid

Name of Work : Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU, Delhi

- (i) Estimated cost of work. : Rs. 10,13,537/-
- (ii) Earnest Money : Rs. 20271/-
- (iii) Performance Guarantee : 5% (Five percent) of the tendered value.
- (iv) Security Deposit : 2.5% (two point five percent) of the tendered value.

SCHEDULE 'F'
GENERAL RULES & DIRECTIONS :

Officer inviting tender

Chief Project Officer,
DTU Campus, Delhi

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3

See details under clause 12 of this NIT

Definitions:

2 (v) Engineer –in – charge

Chief Project Officer,
DTU Campus, Delhi

2 (viii) Accepting Authority

Chief Project Officer,
DTU Campus, Delhi,

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

15 %

2 (xi) Standard Schedule of Rates.

CPWD- Delhi Schedule of Rates (E&M) 2018 and Market Rates

2 (xii) Department

DTU (Delhi Govt.)

9(ii) Standard CPWD Contract Form GCC-2020, CPWD Form 7/8 modified &Corrected upto

CPWD Form-7 and CPWD Contract form GCC-2024 amended upto last date of receipt of tender

Clause 1

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

07 Days

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

05 Days

Clause 2

Authority for fixing
Compensation under Clause 2.

Chief Project Officer, DTU Campus,
New Delhi

Clause 2 A

Whether Clause 2 A shall be applicable

Not applicable

Clause 5

Number of days from the date of issue of letter
Of acceptance for reckoning date of start

12 Days

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

S.No.	Description of Milestone(Physical)	Time Allowed in days (from date of start)	Amount to be with - held in case of non-achievement of Milestone.
NOT APPLICABLE			

Time allowed for execution of work

03 Months

Authority to decide:-

- (i) Extension of time Chief Project Officer,
DTU Campus, Delhi
- (ii) Rescheduling of Mile Stones V.C., DTU, New Delhi
- (iii) Shifting of date of start in case of delay in handing over of site V.C., DTU, New Delhi
New Delhi

Clause 6

Clause applicable (6 or 6A)

Clause 6 A

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.

Clause 7 A

Whether Clause 7A shall be applicable

N.A.

Clause 10 A

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

Not applicable.

Clause 10 B (ii)

Whether Clause 10 B (ii) shall be applicable

Not applicable

Clause 10C

Component of labour expressed as percent of value of work = Not Applicable

Clause 10CA

S.No.	Materials covered under this clause	Nearest Materials (other than cement, reinforcement bars and structural steel And POL) for which All India Wholesale Price Index to be followed	Base Price and its corresponding period of all the Materials covered under clause 10 CA**
1.	-----Not applicable-----		

Clause 10 CC

Not Applicable

Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in the next column.

__Month

Schedule of component of other Materials, Labour, etc. for price escalation.

Component of civil (except materials covered under clause 10CA)/Electrical construction value of work-

Xm __%

Component of Labour- expressed as percent of totalvalue 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 work:-

CPWD General Specifications for Electrical Works Part I (Internal) – 2013 & Part II (Ext.) -1995, Part VII for DG Set works-2013, as amended upto date and as per terms & conditions of NIT.

Clause 12

Deviation limit beyond which Clause 12.2. & 12.3 shall apply :-

(a) For Construction works: 100%

(b) All Maintenance works: No limit

Clause 16

Competent Authority for

1. VC, DTU, (GNCTD), Delhi Deciding reduced rates upto 5% of tendered amount.
2. VC, DTU, (GNCTD), Delhi above 5% of accepted tendered amount.

Clause 18

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

As per requirement of work and direction of Engineer-in-charge

Clause 19 As per GCC 2024 amended up to date

Clause 19L As per GCC 2024 amended up to date

Clause 36 (i)

Requirement of Project Manager & Technical representative(s) and recovery rates.

S. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
- As per CPWD Works Manual as amended upto date –							

Assistant Engineer retired from Govt. services that are holding Diploma will be treated at par with Graduate Engineer. **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 holder should not exceed 50% of requirement of degree engineers.**

Clause 42

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No.	Description of item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond permissible variation
NIL			

FORM OF PERFORMANCE SECURITY (GUARANTEE)

BANK GRARANTEE BOND

In consideration of the DTU (hereinafter called “The Government”) having offered to accept the terms and conditions of the proposed agreement between.....*.....and*..... (Hereinafter called “the said Contractor(s)”) for the work*..... (hereafter called “the said agreement”) having agreed to production of a irrevocable Bank Guarantee for Rs.*..... (Rupees.....*.....only) as a security/guarantee from the contractor(s) for compliance of this obligations in accordance with the terms and conditions in the said agreement.

- 1) We*..... (hereinafter referred to as “the Bank”) here by (indicate the name of the Bank) Undertake to pay to the Government in amount not exceeding Rs*..... (Rupees.....*.....)
- 2) We*..... do hereby undertake to pay the amounts due and payable (indicate the name of the Bank) Under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs....*..... (Rupees*.....only).
- 3) We, the said bank further undertake to pay to the Government any money so demanded notwithstanding any dispute raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this preset being absolute and unequivocal.
The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.
- 4) We*..... further agree that the guarantee herein contained(indicate the name of the Bank) shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.
- 5) We.....*..... further agree with the Government that (indicate the name of the Bank) the government shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor (s) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the

Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

- 6) This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
- 7) We..... *lastly undertake not to revoke this (indicate the name of the Bank) guarantee except with the previous consent of the Government in writing.
- 8) This guarantee shall be valid upto __*_____. Unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. __*_____ (Rs. __*_____ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.
Dated the __*_____ day of __*_____ for __*_____ (indicate the name of bank)

AFFIDAVIT

I/ We have submitted a bank guarantee for the work

(Name of work)

Agreement No. _____ dated _____ from

(Name of the Bank with full address)

to the Executive Engineer _____ with a view to seek exemption from payment of security deposit/performance guarantee in cash. This bank guarantee expires on _____. I/We undertake to keep the validity of the bank guarantee intact by getting it extended from time to time at my/our initiative upto a period of _____ months after the recorded date of completion of the work or as directed by the Engineer-in-Charge.

I/We also indemnify the Government against any losses arising out of non-encashment of the bank guarantee, if any.

Note: The affidavit is to be given by the executant before a first class Magistrate.

Integrity Pact

To,
M/s.....,
.....,
.....

Sub:- NIT No. DTU/Engg.Cell/00185/2023-24. for the work : Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU, Delhi

Dear Sir,

It is here by declared that PWD is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the Bidder/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the PWD.

Yours faithfully

Chief Project Officer

To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of PWD.

INTEGRITY AGREEMENT

This Integrity Agreement is made at*..... on this*..... day of*.....20..*.....

BETWEEN

DTU represented through **The Chief Project Officer, Engineering Cell, DTU, Delhi, E-Mail:- cpo@dtu.ac.in** (Hereinafter referred as the ‘**Principal/Owner**’, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....
(Name and Address of the Individual/firm/Company)

Through(Hereinafter referred to as the “**Bidder/Contractor**” (Details of duly authorized signatory) and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner has floated the Tender (NIT No.DTU/Engg.cell/00185/2023-24/electrical) (hereinafter referred to as “**Tender/Bid**”) and intends to award, under laid down organizational procedure, contract.

Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generators install at premises of DTU, Delhi

Herein after referred to as the “**Contract**”.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as “**Integrity Pact**” or “**Pact**”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, Therefore, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

- 1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not

be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

- e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose (with each tender as per Performa enclosed) any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
- 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**
- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of Indian Penal code (IPC)/Prevention of Corruption Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/ sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/ lodged during the time, the same shall be binding and Continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/determined by the Competent Authority, PWD.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Head quarters of the Division** of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.

- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this **Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.**

Article 8- Legal and Prior Rights

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.

(Signature, name and address)

2.

(Signature, name and address)

Place:

Dated:

ADDITIONAL GENERAL AND COMMERCIAL CONDITIONS

1.0 GENERAL

- 1.1 The work shall be executed as per standard trade practice of CPWD General Specifications for Electrical Works Part-I to VIII & others as amended upto date, relevant I.E. Rules, BIS/IEC and as per directions of Engineer-in-Charge. These additional specifications/ conditions are to be read in conjunction with above and in case of variations; specifications given in these conditions 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.
- 1.2 The firm should in his own interest visit the site and get familiarize with the site conditions before submitting bid.
- 1.3 The department is at liberty to discontinue / cancel the contract / agreement any time without giving any notice and without assigning the reason thereof. Decision of Engineer-in-charge shall be final and binding to the contractor. In case foreclosure of work, the contractor shall have no claim of any payment on account of compensation or otherwise whatsoever which he might have derived from the execution of the work in full.

2.0 COMMERCIAL CONDITIONS

- 2.1 Type of Contract: The work to be awarded by this work order shall be treated as indivisible works contract.
- 2.2 The tenderers are advised not to deviate from the technical specifications/ items, commercial terms and conditions of NIT like terms of payment, guarantee, arbitration clause, escalation etc.
- 2.3 Necessary clarifications required by the department shall have to be furnished by the tenderer within the time given by the department for the same. The tenderer will have to depute his representative to discuss with the officer(s) of the department as and when so desired. In case, in the opinion of the department a tenderer is taking undue long time in furnishing the desired clarifications, his bid will be rejected without making any reference.
- 2.4 The department reserves the right to reject any or all the price bids and call for fresh prices/ quotation as the case may be without assigning any reason.

3.0 RATES

- 3.1 The rates quoted by the tenderer, shall be firm and inclusive of all taxes, duties etc. and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary construction of storage, over head charges, general liabilities/obligations and clearance from statutory body as and if required. However, being a government job of public service, applicability shall be governed by prevalent government rules and instructions.

4.0 ACCEPTABLE MAKES OF VARIOUS EQUIPMENTS:

- 4.1 The acceptable makes of various equipments / components / accessories have been indicated in "List of Acceptable Makes" or in BOQ. The bidder shall work out the cost of the offer on this basis. Alternate makes are not acceptable. The make / samples of material shall be got approved by the Engineer - in - Charge before procurement.

- 4.2 The makes/models and Cat. No. etc mentioned above are indicative only. The firms shall be responsible for providing the system fulfilling the specifications capacity and all other related requirement of system ensuring compatibility between different items of work.
- 4.3 The firm shall be required to supply all the items of same make (among the list of approved makes) to ensure compatibility, proper matching and ease of maintenance.
- 4.4 Department reserves the right to accept the upgraded version of various items, if there is technological advancement with reference to these makes/models. The decision of department in this reference shall be final and binding on the firms.
- 4.5 The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipments regarding installation, adjustments operation and maintenance including preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue etc. all in triplicate.
- 4.6 Copies of all documents of test certificates of the equipment carried out at the manufacturers premises shall be furnished to the Engineer-in-Charge and consignee.
- 4.7 All the equipments provided at site under the scope of work shall match with the existing installation. All installation under scope of work shall be tested on available load i/c checking of all safeties and report shall be submitted with the bill.
- 4.8 All the materials, whatsoever, to be supplied and provided by the contractor should be as per approved make / samples. These should be got checked from the Engineer-in-Charge or his authorized representative before installation. No payment will be made for any unapproved or sub standard/ rejected materials used on the work. Rejected materials should be removed from the site of work within 48 hours failing which the same will be liable for removal by the department at the risk and cost of contractor without any liability.

5.0 VERIFICATION OF CORRECTNESS OF EQUIPMENT AT DESTINATION:

- 5.1 The contractor shall have to produce all the relevant records to certify that the genuine equipments from the manufacturers has been supplied and erected.

6.0 STORAGE AND CUSTODY OF MATERIAL

- 6.1 The agency has to make his own arrangements for storage. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

7.0 INSURANCE AND STORAGE :

- 7.1 All consignments are to be duly insured upto the destination from warehouse at the cost of the contractor. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

8.0 TERMS OF PAYMENTS

- 8.1 The following percentage of contract rates for the items included in the contract shall be payable against the stage of work shown herein.
 - (a) 75% after initial inspection and delivery at site in good condition on pro-rata basis.
 - (b) 15% after completion of installation in all respects.

(c) Balance 10% will be paid after testing, commissioning and handing over to the department for beneficial use.

8.2 Income tax, GST, Security Deposit, Work Contract Tax applicable in the State, labour cess & other statutory deductions etc. shall be made at source as per the prevalent laws. The deductions shall be done after calculation of due payments as per clauses (a) to (b) and net payment shall be reduced accordingly.

9.0 MOBILIZATION ADVANCE :

No mobilization advance shall be paid for this work.

10.0 CARE OF THE BUILDING

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

10.2 The safety of all equipment of Govt. installation shall be the responsibility of the contractor. The contractor shall be responsible for any loss or damages arising out of any accidents/mishap/fire etc. due to negligence of his staff. The decision of Engineer-in-charge should be final and binding on the contractor.

11.0 POWER SUPPLY:

11.1 Power supply shall be made available by the department at one point in Campus free of cost. Further the arrangement for tapping power/water supply from this point shall be made by the contractor.

12.0 ERECTION TOOLS :

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

13.0 SAFETY PROCEDURES:

13.1 The contractor shall take all precautions at site during execution of work and follow all safety procedures. If any accident / mishappening occur to the workmen or to the third party, the department shall not be held responsible for the same. If any compensation is to be paid to the victim, the firm shall pay the same and no claim whatsoever due to such occupational hazard/accident shall be entertained by the department.

14.0 COMPLETENESS PERIOD

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

15.0 INDEMNITY :

15.1 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 equipments 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.

16.0 COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS:

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

- (i) Factories Act.
- (ii) Indian Electricity Rules
- (iii) B.I.S. & other standards as applicable
- (iv) Workmen's compensation Act.
- (v) Statutory norms prescribed by local bodies like CEA, Power Supply Co. etc.

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

16.3 Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirements would make the tenderer liable for penalty of Rs.5000/- for each default. In addition, the department will be at liberty to make arrangement for safety requirements at the cost of tenderer and recover the cost thereof from him.

17.0 COOPERATION WITH OTHER AGENCIES :

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

18.0 HANDING OVER:

18.1 After the expiry of the contract, the firm shall have to hand over complete, installation to the department in proper working order. All defect and deficiencies shall have to be rectified by the firms to the entire satisfaction of Engineer-in-charge failing which the work shall be got done at the risk and cost of the firm.

19.0 GUARANTEE

19.1 All equipments shall be guaranteed for a period of 24 months, from the date of taking over the installation by the department, against unsatisfactory performance and/or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by department at the risk and cost of contractor. The decision of the Engineer-in-Charge in this regard shall be final & binding on the contractor.

20.0 MAINTENANCE:

- 20.1 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of Two year from the handing over of the installation.
- 20.2 The maintenance, routine as well as preventive for Two year from the date of taking over the installation as per manufacturer's recommendation shall be carried out.

21.0 INTERPRETING SPECIFICATIONS:

In interpreting the specifications, the following order of decreasing importance shall be followed in case of contradictions:

- (a) Schedule of quantities
- (b) Technical Specifications
- (c) Drawing (if any)
- (d) General Specifications

Relevant BIS or other international code in case BIS Code is not available.

ADDITIONAL TECHNICAL TERMS AND CONDITIONS

1. Contractor will have to abide by the instructions contained in CPWD Manual Volume-II (upto date) applicable to him.
2. No T&P shall be issued by the department for execution of work.
3. The rates quoted by Firm/ Contractor shall be inclusive of all Govt. taxes & duties i/c GST etc. and nothing extra shall be paid on this account.
4. All the materials, whatsoever, to be supplied and provided by the contractor should be of standard and approved quality. These should be got approved from the Engineer-in-Charge or his authorized representative before installation. No payment will be made for any unapproved or substandard/ rejected materials used on the work. Rejected materials should be removed from the site of work within 48 hours failing which the same will be liable for removal by the department at the risk and cost of contractor without any liability.
5. No material will be taken out of premises without written permission of Engineer-in-Charge.
6. The electric work shall be done in closed co-ordination and in phase, strictly with civil works and as & when reqd. during the period of contract at the call. The contractor shall start the work within 24 hrs of the call made to contractor on telephone/ in writing etc. as applicable. Where-ever these are in control of this office no claim for idle labour shall be entertained under this agreement.
7. Any damage done to the building while executing the electric work should be make good to the satisfaction of the department. The chases, holes etc. cut in the walls and roofs should be filled within two days. All malba should be removed on the same day. In case of failure to do so it will be got done by the Engineer- in-Charge or his authorized representative at contractor's risk and cost.
8. All watch and ward of the materials installed at work will be responsibility of the contractors till their handing over to the department on completion of work. Merely recording of measurement and running payments made to contractor. There will be regular handing over/ taking over the installation. Any missing item shall have to be make good by the contractor.
9. Persons employed for execution of electrical work should have electrical license as required under I.E. Act.
10. Department shall not be responsible for any injury partial or permanent or death of any worker at site due to accident or manufacturing of the equipment or by negligence of the staff.
11. First aid box shall be kept by the contractor at site of work. No extra payment shall be made on this account.
12. Damage to the building & machinery if any will be made good by the contractor at his own cost.
13. Supply items to be got approved from Engineer-in-Charge in Advance, otherwise no payment shall be released.
14. The staff deployed by the contractor shall be purely employee of the agency only. Staff deployed shall not claim for any govt. job or compensation from the department in any way.
15. If any condition's is put by the contractor, which is not as per CPWD specifications/ terms and conditions of NIT, his tender is liable to be rejected.
16. All screws/ nuts bolts should be galvanized/ cadmium plated/ passivate only as the case may be.
17. Contractor will have to abide by the instructions contained in CPWD Works Manual 2019 (as amended upto date) applicable to him.
18. All inter-connections in the switch-boards shall be carried out with suitable cables commensurate with the current carrying capacity.

19. Malba shall be removed from the site daily and site kept neat and clean failing which the same is liable to be go removed by the department at the risk and cost of contractor.
20. Contractor will inform the contact number to Deptt. so that in case of emergency the contractor can be informed for the work.
21. The agency has to submit the Challan/purchase documents along with materials as reqd.
22. The dismantle material if any, unless otherwise specified shall be property of the department.
23. The firm shall be responsible for any liability/ compensation in case of any accident or otherwise any untoward incident at his own risk for the staff deputed by the firm and department shall not give any compensation.
24. The successful firm should submit minimum two years or as per OEM Guarantee / warranty whichever is more, and minimum seven years' service support for the items or more as per manufacturer recommendation.
25. Contractor shall warranty that all the equipment and material to be supplied under the contract are new and free from any defects and faults in material, workmanship and manufactured and are of highest grade and consistent with the established and generally excepted standards for the same type of equipments and material and shall performing full conformity with the specifications and drawing. The contractor shall be responsible for any defect that may develop under the contract conditions and under proper use, arising from faulty material, design or workmanship such as corrosion, in adequate quantity of material to meet equipment requirement, in adequate contact protection, deficiency in circuit design and / or otherwise and shall remedy such defects at its own cost when called upon to do so by the purchaser, who shall state in writing in what respect stores is faulty. The contractor shall warrant that if system deficiency are noticed in operation of the system for which software function are involved then the software update for correcting the deficiency shall be supplied free of cost for the purchaser. The warranty shall survive upto twelve months after successful commissioning of the entire equipment.
26. If it becomes necessary for the contractor to replace or renew any defective portion/ portions of the equipment, so replaced or renewed or until the end of the above mentioned period of twelve month. If any defect is not remedied within a reasonable time the purchaser may proceed to the work at the contractor risk and expenses, after the contractor was informed by registered letter, without prejudice to any other right which purchaser may against the contractor in respect to such defect.
27. Replacement under warranty shall be made by the contractor free of all charges at site including freight, insurance incidental charges.
28. With respect to parts needed to troubleshoot and maintain installation after the warranty period the contractor shall warranty the delivery of spares for at least five years. After this period the contractor shall inform CPWD from where the parts can be procured in case contractor is unable to provide.
29. The work is to be carried out at the place as mentioned in the BOQ. However, if the work is required to be carried out urgently in any other building other then as mentioned in NIT is also deemed to be included in scope of the work. The contractor will be bound to execute the main items & additional items on prevailing current market rates as per the contract.

ADDITIONAL SPECIFICATION & TERMS AND CONDITIONS

1. **Site Monitoring is the responsibility of bidder before quoting the tender.**

Sr No	Parameter	Observation
1	<p>Engine verification The engine on which RECD fitted shall be from the approved applicable range. Check the engine emission compliance labeling details.</p> <ul style="list-style-type: none"> a) Engine manufacturer b) Engine Type Approval certificate c) Engine Family d) Model year from/to. / Date of Mfg. e) Engine type/Model f) Rated Power kW 	
2	<p>Site verification</p> <ul style="list-style-type: none"> a) Layout of the RECD as per TA approved drawing/layout/ installation documents b) Stack (Chimney) height as specified c) Overall Noise during running d) Any exposing operators or by standers to any safety hazard e) Visual smoke f) Stack Height as per specifications g) Provision of Pothole/Opening for future measurements. h) Noise Status. 	
3	<p>Maintenance verification</p> <ul style="list-style-type: none"> a) Scheduled maintenance Records of RECD including any scheduled exchange of RECD related components b) Use of specified lubrication oil specifications necessary to maintain the performance of the RECD system; 	
4	<p>On-board diagnosis Systems verification</p> <ul style="list-style-type: none"> a) Warning system: Proper functioning of on-board operator warning system, audible and/or visual alarm to the operator when possible malfunctions/failure detected in RECD system /components which affecting the efficiency of the RECD b) Proper functioning On Board Diagnostic tool or method to detect the functioning/bypassing/removal of RECD c) Inducement system: Proper functioning of the operator inducement system as a consequence of ignoring the warning alarm will result in DG set being unable to start 	
5	<p>Tampering</p> <ul style="list-style-type: none"> a) Any deliberate tampering or misuse of the engine RECD control system; in particular, with regard to deactivating or not maintaining an exhaust gas recirculation (EGR) or a reagent dosing system b) Presence of any defeat devices that by-pass or reduce the efficiency of the RECD 	

6	Regeneration verification a) In case RECD system requires a reagent for regeneration, check specified characteristics of that reagent, including the type of reagent being used b) Proper functioning of Regenerations methodology adapted to bring the efficiency of the RECD c) Proper dispose of Soot/PM collected during regeneration	
7	Any other Remarks.	

2. **Other Specification.**

- i. The RECD shall be so designed that it can be used in its intended applications, when fitted in accordance with the supplied instructions, without impairment of the operating behavior of the DG set unless,
- ii. The impairment does not cause a safety hazard and make an assessment of the safety hazards that might arise from installation of the RECD on the DG set.
- iii. The impairment does not increase the fuel consumption and does not lead to an increase of noise emissions of the DG set.
- iv. Complying all NGT guidelines

3. **Retrofit system to be upgraded for the next 10 years to achieve standard emission of $\geq 90\%$ in wet and $\geq 70\%$ in dry retrofit emission.**

- i. The RECD responsible for online removal of gaseous pollution prevent choking / clogging of eliminator plates i.e. Self-regenerative process.
- ii. Outlet pollutant concentration is less than 20mg/ NM3 irrespective of inlet pollutant concentration.
- iii. Retro-fit Emission control equipment is complete with pressure relieve valve, by-pass valve and other safety precautions to ensure no damage to be done to the engine operations under any circumstances.
- iv. The Retro-fit Emission control equipment to be closely coupled with the engine exhaust to ensure 100% for the exhaust passes through it.
- v. Anti-Vibration mountings is provided for complete Retro-fit Emission control equipment in case of flexible coupling with the diesel generator exhaust.
- vi. Installation and commissioning and the trial run (Testing) of Retro-fit Emission control equipment is carried out by the seller.
- vii. Supply, laying and termination of interconnecting power and control cable between Retro-fit Emission control equipment and the DG set control panel shall be done by the supplier/bidder.
- viii. Pre and post installation test report should be from NABL accredited third party agencies (Test is done prior to installation of retrofitting system (FAT) and Post the installation of Retrofitting System Installation(SAT).

4. **Testing Procedure / manufacturing and approval requirements.**

Step – 1

Govt Lab / NABL accredited Lab/ ILAC accredited as approved by CPCB shall get involved from very first stage of manufacturing of the RECD and all the test related to Design, Engineering / material specifications and other mechanical / fabrication Tests as per ASME Standards and as per Quality Assurance Plan (QAP) is to be submitted and verified /stamped from recognized Lab at each stage i.e Procurement of the raw material, cutting, welding, fabrication assembly etc.

STEP - 2

After manufacturing of the main Emission Control Equipments and its accessories Factory Acceptance Test (FAT) shall be carried out by NABL /ILAC accredited Lab (already appointed) as above shall carry out all tests as per QAP Plan submitted by RECD manufacturer.

STEP- 3

A Pre Dispatch Inspection is to be carried out by approved CPCB Test Labs technical team from time to time to get assure the quality of the Product and a clearance shall be given to dispatch the equipment at site

STEP - 4

After dispatch of the RECD at site installation of the Equipment's, mechanical, electrical works and connection of headers and exhaust pipe shall be carried out.

STEP- 5

- I. CPCB Recognized Lab shall carry out Testing / Monitoring of the flue gas Emission related to particulate matter (PM 2.5), Sox, Nox, HC, etc) at inlet and outlet of RECD.
- II. CPCB Recognized Lab shall carry out Testing / Monitoring of the flue gases at the outlet of RECD as per the guidelines and standards, procedures adopted and as defined by CPCB
- III. CPCB Recognized Lab shall necessarily carry out Test for micron size distribution of particulate matter in order to access the % removal of particulate matter less than 2.5 microns i.e. (PM 2.5) in order to access the performance of Retro Fit Emission Control Device it should be more than 90% and other pollutants (Particulate matter higher than (PM2.5) , Sox, Nox, HC, etc) shall be removed 100%. In order to meet CPCB guidelines / approvals for this application.

Pre-dispatch inspection at OEM premises (Fee/Charges to be borne by the bidder): Before dispatch, the goods will be inspected by Buyer / Consignee.

The OEM / Bidder provide premises for their compliance to the contract specifications.

The OEM/ Bidder provide In-house testing will provide necessary facilities free of cost. Nothing will be paid by Bidder.

OEM/ Bidder shall notify the Buyer through email about readiness of goods for pre-dispatch inspection the authorized Representative/ Nominated External Inspection.

5. **The material/equipment shall be subjected to inspection and testing before dispatch.**

- i. The bidder will be solely responsible for pre-inspected material for Quality Assurance including pre-dispatch inspection/ testing at manufacturers site by NABL accredited lab, ILAC accredited lab (CPCB Recognized Labs as per NGT Guidelines).
- ii. That is rate quoted by vendor for the equipment / material is inclusive of inspection charges.

6. **Warranty**

- i. The tenderer shall give **24 months' warranty** after successful completion/Provisional acceptance of the equipment's /installations for satisfactory performance from the date of commissioning against any defect. Regular maintenance checks will be carried out by the bidder free of cost during the period of guarantee. Maintenance will cover the following activities.
 - ii. Checking the safety valve.
 - iii. The life of device must be 10 years.
 - iv. The party must provide an operating manual
 - v. Checking and monitoring the back pressure.
 - vi. Cleaning and maintaining the aesthetic quality of the device.
 - vii. Cleaning and treating the soot collected in the collection chamber.
 - viii. Recording and monitoring data on running hours, particulate matter collected.

The bidder shall bear the cost of all modification additions or substitutions that may be considered necessary due to faulty materials, design or workmanship for the satisfactory working of the equipment during guarantee period. The final decision shall rest with Ex. Engg (E) DTU.

SPECIAL CONDITIONS TO COMPLY DIRECTIVES OF HON'BLE NATIONAL GREEN TRIBUNAL

1. The contractor shall not store/ dump construction material or debris on metalled road.
2. The contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metalled road. This area shall not cause any obstruction to the free flow of traffic/ inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
3. The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/ area using CGI sheets or plastic and / or other similar material to ensure that no construction material dust fly outside the plot area.
4. The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/ or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/ contaminate air.
5. The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
6. The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
7. The contractor shall ensure that C&D waste is transported to the C&D waste site only and due record shall be maintained by the contractor.
8. The contractor shall compulsory use of wet jet in grinding and stone cutting.
9. The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.
10. The contractor shall carry out on-Road-Inspection for black smoke generating machinery. The contractor shall use cleaner fuel.
11. The contractor shall ensure that all DG Sets comply emission norms notified by MoEF.
12. The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
13. The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.
14. The paving of the path for plying of vehicles carrying construction material is more permanent solution to dust control and suitable for longer duration projects. The NIT approving authority shall carry out cost benefit ratio analysis of the same.

Detailed Estimate

Name of work:- Supply, installation, testing and commissioning of retrofit kit for emission, control equipment for diesel generator 500KVA install at premises of DTU, Delhi.

S. No.	Description of Item	Qty.	Rate	Unit	Amount	
1	Supply, Installation, Testing & Commissioning of Retrofit Emission Control Device on existing 500 KVA DG sets to reduce particulate matter, Hydrocarbon and Carbon Monoxide emission by at least 70% in 5 mode D2 cycle. Device should be 'Type Approved' as per the System and Procedure of Central Pollution Control Board for Emission Compliance Testing of Retro-fit Emission Control Devices (RECD) For Diesel Power Generating Set Engines, Dated 01/02/2022, wide Pollution Control Series PCLS/12/2021-22 Adhering to this, RECD to be 'Type Tested' for equivalent kVA rating from any one of the four Central Pollution Control Board, Govt, of India, recognized/ approved test agencies / laboratories as given below: (a) Automotive Research Association of India (ARAI, Pune) (b) International Centre for Automotive Testing (ICAT, Manesar) (c) Indian Institute of Petroleum (IIP, Dehradun) (d) Vehicle Research Development Establishment (VRDE, Ahmednagar) RECD should not consume additional electricity/power either from the main supply or DG set for emission reduction. RECD should be installed on the top of the DG set, with available space. No extra space to install RECD will be provided around DG set considering the constraint of the space and its cost. The alteration to made in exhaust system is already included in the scope of work. (Make: CUMMINS/PLATINO/DEKONIX/Any make duly approved by CPCB authorized lab for equivalent KVA DG Set)	1	Job	1013537.00	Each	1013537.00
	Total Amount					1013537.00
	Say Rs.					1013537.00