



GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
NUCLEAR FUEL COMPLEX

TENDER NOTIFICATION/TENDER DOCUMENT FOR

Tender Notice No: E/529/2017

Name of the work

"Revamping of Primary Ventilation System of reduction section of
NZSP at NFC, Hyderabad"

TECHNICAL BID(PART-I)



Electrical Projects (Ventilation), 2nd Floor, Sarathi Building,
ECIL Post, Hyderabad – 500 062.

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Government of India
Department of Atomic Energy
NUCLEAR FUEL COMPLEX
ELECTRICAL PROJECTS
HYDERABAD – 500 062

NOTICE INVITING TENDER
(Tender Notice No.E/529/2017)

1. Item rate Two part tenders are invited on behalf of the President of India by Dy. Chief Engineer (CED,PD,EP), Nuclear Fuel Complex, Hyderabad – 500 062 from approved and eligible contractors of DAE and those of appropriate list of CPWD, Department of Telecommunications, M.E.S., Railways and A.P. State P.W.D., for the work of "**Revamping of Primary Ventilation System of reduction section of NZSP at NFC, Hyderabad**"

1.1 The work is estimated to cost **Rs. 161.65 Lakhs**. This estimate, however, is given merely as a rough guide.

1.2 Tenders will be issued to eligible DAE as well as non DAE contractors provided they produce 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: -

1.3 Criteria of eligibility for issue of tender documents

- A. Joint ventures are not accepted.
- B. Should have satisfactorily completed the work(s) as mentioned below during the last Seven years ending previous day of last date of submission of bids.
 - 1.2 One similar work not less than 80% of Estimated cost or
Two similar works not less than 60% of Estimated cost or
Three similar works not less than 40% of Estimated cost

For the purpose of this clause 'similar work' means the works of "Design, Fabrication, Supply, installation, testing and commissioning of HCl off gas Ventilation systems".

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 submission of bids.

- C. Should have had average annual financial turnover of Rs 161.65 lakhs, during the immediate last 3 consecutive financial year.
- D. Solvency Certificate of at least 40% of estimated cost (65 lakhs) from Bankers or Equivalent in support of financial standing taken after 01.04.2016

- E. Should not have incurred any loss in more than 2years during last five years ending march 31,2016.
- F. To become eligible for issue of bid the bidders shall have to furnish an affidavit as under:-

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in NFC 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. (Included in the standard form of agreement **“Item rate tender and Contract for works”, which is to be signed and submitted**)

2. Agreement shall be drawn with the successful tenderer on prescribed Form enclosed. Tenderer 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 **9 (nine) calendar months to be reckoned** from the 15th day after the date of written orders to commence the work or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be purchased from the office of the Electrical Projects, 2nd floor, Sarathi Bldg., Nuclear Fuel Complex, Hyderabad-62, between hours of 10.00 A.M. & 04.00 P.M. everyday except on Sundays and Public Holidays or holidays declared by NFC. Applications with all credentials for issuance of tender documents will be received and subsequently tender documents will be issued from this office, during the hours specified above from 06/07/2017 to 22/07/2017, on payment of Rs 1000/- (Rs One Thousand only) which is non-refundable by way of Bankers cheque, Pay Order, Demand Draft drawn in favour of Pay and Accounts officer, NFC.
5. The tenderer must produce the following to issue tender documents:
 - a) Income-Tax clearance certificate in the revised form as modified under Ministry of Finance O.M. No.67/30/69/ITAL dated 02-07-1970 as amended from time to time which shall be valid before tender papers can be sold to him or Audited balance sheet indicating receipts from contracts, profits/loss for the past five years as per Form C.
 - b) Solvency Certificate of at least 40% of estimated cost from Bankers or Equivalent in support of financial standing taken after 01.04.2016 as per proforma "Appendix VI" to be submitted in Form D

c) List of works executed as per Form A & B together with the certificates/testimonials from clients in support of the works executed of the like nature Design, Fabrication, Supply, installation, testing and commissioning of ventilation systems consisting of Scrubbers, PVC/FRP ducting, centrifugal fans and pumps executed during last 7 years ending 31st March 2016.

d) Payment of Rs 1000/- (Rs One Thousand only) which is non-refundable by way of Bankers cheque, Pay Order, Demand Draft drawn in favour of Pay and Accounts officer, NFC.

6. Tenders (Technical Bid and Financial Bid), which should always be placed in sealed envelope, with the name of work and due date written on the envelopes, will be received by the **Supt Engineer (VP, AC& R M), Electrical Projects** up to **14.00 hrs** on 10/08/2017 and Technical Bid i.e. **Part I** will be opened by him or his authorized representative in his office on the same day at **15.00 hrs**. Date of opening of Financial Bid i.e. **Part-II** will be intimated to the short listed (technically qualified) bidders later.
7. The part-1 tender (technical bid), and part-2 tender (commercial bid) shall be placed in separate sealed envelopes each marked “part-1 tender (technical bid)”, & “part-2 tender (commercial bid)” respectively. Both envelopes shall be submitted together in another sealed envelope.
8. Earnest money deposit (EMD) [**Rs. 3,23,300/- (Rupees Three Lakh twenty three thousand and three hundred only)**] in the form of Demand Draft/Pay Orders/Banker’s Cheque/FDR and Deposit at Call receipt of a Scheduled Bank issued in favour of "PAY AND ACCOUNTS OFFICE, NFC" should be submitted along with part-1 & part 2.
9. The description of the work is as follows:

" Revamping of Primary Ventilation System of reduction section of NZSP at NFC, Hyderabad"

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

10. The competent authority on behalf of President of India does not bind himself to accept the lowest or any other tender, and reserves to himself the authority to reject any or all of the tenders received without the assignment of a reason. All tenders in which any of the prescribed conditions are not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
11. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
12. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
13. The contractor shall not be permitted to tender for works in NFC (responsible for award and execution of contracts) in which his near relative is posted as Assistant Accounts Officer or as an officer in any capacity between the grades of Chief Engineer and Assistant 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 NFC or in the DAE. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
14. 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 two years after his retirement from Government service, without the previous 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 tender or engagement in the contractors service.
15. The tender for the works shall remain open for acceptance for a period of 120 days from the date of opening of tenders. If any tenderer withdraws his tender before the said period or makes any modifications in the terms and conditions of the tender 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.
16. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work sign the contract consisting of :-
The notice inviting tender, all the documents including Tender of contract, General rules and directions, clauses of contract, proforma of schedules, safety code, Model rules, contractors labour regulations, proforma of registers, special instructions to tenderers, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

17. **Performance Guarantee (PG):** The bidder whose offer is accepted is required to submit **Performance Guarantee within a period of 15 days from the date of issue of LOA. Performance Guarantee shall be 5% of tendered and accepted value.** It can also be in the form of Demand Draft/Pay Order/Banker's cheque/Deposit at Call receipt/FDR of a Scheduled Bank issued in favour of Pay & Accounts Officer, NFC payable at Hyderabad or Bank Guarantee from any scheduled Bank **valid up to stipulated date of completion plus 60 days** beyond that along with an additional claim period of six months accepted by Engineer-in-charge or as mentioned in LOA or Order issued by the Department.
18. **Security Deposit (SD):** During execution of work, **Security Deposit (SD)** will be deducted from Running Bills up to **2.5% of tendered and accepted value.** The EMD submitted along with the Tender will be returned after receipt of performance guarantee. If so desired by the contractor, the total SD amount can be deposited in the form of Demand Draft or Pay Order or Banker's Cheque or Deposit at call Receipt or FDR in favour of Pay & Accounts Officer, NFC payable at Hyderabad.
Performance Guarantee will be refunded to contractor without any interest only on successful completion of contract and on production of work completion certificate from concerned officer-in-charge. Security deposit will be returned after completion of guarantee period of 12 months or after payment of final bill whichever is later.
19. Income Tax and VAT on Works contract as applicable will be recovered from the bills payable to the contractor.
20. **Bid Validity:** The tender for the works shall remain open for acceptance **for a period as specified at clause no. 15.** If any bidder withdraws his tender before the said period or makes any modifications in the terms and conditions of the tender 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. The bidder shall extend the validity period on written request from NFC
21. **Other Conditions:**

Site Visit: Bidders who are interested to participate in the tender are advised to inspect and examine the site before submission of their tender.

Bidders who are apparently meeting the eligibility qualification criteria as mentioned in this NIT shall only be allowed to visit site.

The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & equipments, 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 tender by a tenderer 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.

Police Verification for Labourers: Police verification certificate (PVC) of all labour engaged at site shall be obtained by the bidder for issuance of entry pass at site. All stipulations and instruction given by security personnel, CISF from time to time shall be scrupulously be followed for entry/ exit of men and materials and as also during execution of work for security purpose. **The rates quoted shall be inclusive of PVC charges** and no extra payment will be paid from department in this regard.

Medical certificate (MC) for labourers:Medical certificateof fitness for all labourers engaged at site shall be obtained by the bidder for issuance of entry pass at site. **The rates quoted shall be inclusive of MC charges** and no extra payment will be paid from department in this regard.

22. **The contractor shall quote his rates considering all required material, men, equipment/ plant/ machinery/PPE's for satisfactory completion of item in all respects. The rates quoted shall be INCLUSIVE of all the taxes such as Sales Tax/VAT on material, Purchase Tax, Turn over Tax, Excise Duty, Work Contract Tax or any other tax except ESI, EPF & service tax. on materials/work as applicable. Bills will be released on submission of documentary proof towards payment of ESI, EPF and service tax .**

Dy. Chief Engineer (CED,PD,EP)
For & on behalf of The President of India

NFC IS COMMITTED TO A CORRUPTION FREE WORK ENVIRONMENT. "All the purchase and contracts commitments of NFC will be honoured without the citizen having to pay any bribe. In case any person demands any bribe, it is the duty of a responsible citizen to inform the matter to the vigilance officer, NFC, Hyderabad. Telephone numbers are: (O): 040 – 27120218, 27184949

ITEM RATE TENDER & CONTRACT FOR WORKS

Name of work: "Revamping of Primary Ventilation System of reduction section of NZSP at NFC, Hyderabad"

Tender Submission method:

First Cover:

Technical Bid(Part-I) consists of **two covers** which contains as mentioned below:

First cover shall contain (1) "Earnest Money Deposit" & (2) "Technical Bid (filled in original Tender Document)" placed in separate envelopes

Second Cover:

Financial Bid(Part-II)

Both the covers are to be placed in a single third cover with the name of work and due date written on the envelopes.

The tender document shall be submitted within the cut off time and date in the office of Supt Engineer (VP, AC& R M), Electrical Projects, 2nd Floor, Saarathi Building, Nuclear Fuel Complex, Hyderabad-500062, India.

Issued to : _____
(Contractor)

Signature of officer issuing the documents _____

Designation: _____

Date of Issue: _____

TENDER

I / We have read and examined the Notice Inviting Tender, Salient Governing Features of the Tender /Work including Schedules A, B, C, D, E & F, Drawings and Designs, General Rules & Directions, General Clauses of Contract, Special Clauses of Contract & other documents and rules referred to in the Conditions and Clauses 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 President of India within the time specified in Schedule "F", viz., Schedule of Quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule 1 of General Rules & Directions and in Clause - 11 of the General Clauses of Contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **one hundred twenty (120) days** from the last date of its submission of tenders and not to make any modifications in its terms and conditions.

A sum of [Rs. **3,23,300/- (Rupees Three Lakh twenty three thousand and three hundred only)**] has been deposited in cash/receipt treasury challan/deposit at call receipt of scheduled bank/ fixed deposit receipt of scheduled bank/ demand draft of scheduled bank

as earnest money. If I/we, fail to furnish the prescribed performance guarantee within prescribed period, I / we agree that the said President of India or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / we fail to commence work as specified, I / we agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money absolutely. I agree to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Schedule "F" and 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 **Nuclear Fuel Complex & its units** in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee.

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

Signature of Contractor

Postal Address

Dated_____

Witness:

Address:

Occupation:

ACCEPTANCE

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

_____)

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

- a)
- b)
- c)

For & on behalf of the President of India

Signature _____

Dated _____

Designation _____

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

Sl. No.	Name of work /Project and location	Owner of sponsoring organization	Cost of work in crores of rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation /arbitration cased pending /in progress with details*	Name and address/telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

* indicate gross amount claimed and amount awarded by the Arbitrator

Signature of Bidder

FORM 'B'

PROJECTS UNDER EXECUTION OR AWARDED

Sl. No.	Name of work/Project and location	Owner of sponsoring organization	Cost of work in crores of rupees	Date of commencement as per contract	Stipulated date of completion	Upto date percentage progress of work	Slow progress if any and reason thereof	Name and address/telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Signature of Bidder (s)

FORM 'C'

TURNOVER OF CONTRACTOR /BIDDER FOR LAST FIVE YEARS

Sl. No	Financial Year	Turnover	Profit/loss	Remarks
1	2015-2016			
2	2014-2015			
3	2013-2014			
4	2012-2013			
5	2011-2012			

Signature of Bidder (s)

Kindly fill this form and submit for purchase of tender documents

FORM 'D'

SOLVENCY CERTIFICATE DETAILS

Sl. No	Type of solvency	Name of the Bank	Solvency Amount	Issue Date
1				
2				
3				
4				
5				

Signature of Bidder (s)

Kindly fill this form and submit it along with the technical bid.

FORM 'E'

DETAILS OF CONSTRUCTION PLANT AND EQUIPMENT LIKELY TO BE USED IN CARRYING OUT THE WORK

Sl.No.	Name of equipment	Nos.	Capacity or type	Age	Condition	Ownership status			Current location	Remarks
						Presently owned	Leased	To be purchased		
1	2	3	4	5	6	7	8	9	10	11
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Signature of Bidder (s)

Kindly fill this form and submit it along with the technical bid.

FORM 'F'

DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE EMPLOYED FOR THE WORK

Sl. No.	Designation	Total number	Number available for this work	Name	Qualifications	Professional experience and details of work carried out	How these would be involved in this work	Remarks
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Signature of Bidder (s)

Kindly fill this form and submit it along with the technical bid.

FORM 'G'

GENERAL DATA (STRUCTURE & ORGANIZATION)

S. No.	Description of the item	Details	Remarks
1	Contractors name with address		
	Contact person name		
	Phone Nos.		
	email address		
2	Legal status of the bidder (a)An Individual(b)Proprietary firm (c) A firm in partnership (d) A limited company or Corporation-Attach copy of Legal document		
3	Names and Titles of directors & Officers with designation to be concerned with this work		
4	Designation of Individual authorised to act for the organization		
5	Was the bidder ever required to suspend construction for a period of more than 6 months(If so, give the details)		
6	Registration of contractors		
	Organisation		
	Class		
	Financial Limit		
	Date of Registration		
7	Pan No.		
	Address of the issuing authority/to whom TDS is to be remitted		
8	VAT/WCT - TIN No.		

	Address of Commercial tax office to whom VAT deducted to be remitted		
9	Has the bidder or any constituent partner ever abandoned the awarded work before its completion(If so, give the details)		
10	Has the bidder or any constituent partner ever been debarred/ blacklisted for tendering in any organization(If so, give the details)		
11	Has the bidder or any constituent partner ever been convicted by the court of law(If so, give the details)		
12	Field of Mechanical Engineering in which the bidder has specialization and interest		
13	Any other information considered necessary but not included above		

Signature of Bidder (s)

COMPLIANCE TO BID REQUIREMENT

WORK: **" Revamping of Primary Ventilation System of reduction section of NZSP at NFC, Hyderabad" (Tender No E/520/2016)**

TENDER NOTICE NO.: E/520/2016

We hereby agree to fully comply with, abide by and accept without variation, deviation or reservation all technical, commercial and other conditions whatsoever in the BIDDING DOCUMENT for the subject work.

SIGNATURE OF BIDDER : _____
With date

NAME OF BIDDER : _____

COMPANY SEAL : _____

BRIEF SCOPE OF WORK

The work includes supply, installation, testing & commissioning of PVC&FRP/FRP blowers of suitable enhanced capacities, PVC&FRP scrubber of Spray Column Design, recirculation tank of PVC/FRP with PVC/FRP interconnecting pipelines and recirculation pumps, PVC&FRP/SS316L ducting, necessary electrical panel wiring and other allied works such as removal of existing blowers, scrubbers, tanks, pumps and damaged ducting etc. at NZSP at Nuclear Fuel Complex, Hyderabad.

Appendix III & IV deleted

Appendix-V

Location, Access to site & climatic conditions

The site is located at Moula Ali, Andhra Pradesh, about 13 km along motorable road from Secunderabad. The nearest railway station is Moula Ali, 5 kms from Secunderabad (15 kms from Hyderabad). On the way the Hyderabad-Kazipet broad gauge line of South Central Railway. The Hyderabad-Kazipet line runs just south of the area acquired by Department of Atomic Energy.

The climate conditions at Moula Ali are similar to those prevailing at Hyderabad and are generally as indicated below:

Max. of mean daily Temperature	: 40°C
Min. of mean daily Temperature	: 13°C
Absolute max. Temperature	: 45°C
Absolute min. temperature	: 8°C
Relative Humidity max	: 83%
Relative Humidity min	: 27%
Average yearly precipitation	: 750 mm
Maximum daily precipitation	: 150mm
Maximum Hourly precipitation	: Not available
Maximum wind velocity	: 84km/hr
Wind direction	: May to September mainly from W&NW Rest of the year mainly from NE, E and SE

The site is well connected to Hyderabad-Secunderabad by road. The Hyderabad-Kazipet broad gauge line passes just south of the site and a private siding has also been taken to NFC. Hyderabad has a commercial airport at Shamshabad (25 km from Hyderabad) and direct flights are available from all major cities. Both Chennai and Mumbai serve as seaports for Hyderabad.

Post, telephone and fax facilities are available. Site office address is:

**Office of the Dy. Chief Engineer
Electrical Projects (Ventilation)
Nuclear Fuel Complex**

Department of Atomic Energy
ECIL post, Hyderabad-500062
Telephone: 040-27184083, 4025
Fax : 040 -27122532

APPENDIX-VI

**FORM OF BANKERS CERTIFICATE FROM A SCHEDULED BANK
(Solvency certificate)**

This is to certify that to the best of our knowledge and information that M/s. /Shri.
..... 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
.....
.....only.)

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

(Signature of Contractor)

For the Bankers

**Note: (1) Bankers certificates should be on letterhead of the Bank, sealed in cover
addressed to tendering authority.**

**(2) In case of partnership firm, certificate should include names of the
partners as recorded with the Bank.**

PROFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of materials to be issued to the contractor

Sl.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
1	Water for construction	NA		
2	Electricity for construction purpose	As required	Free	One point near the work place

SCHEDULE 'B'

Schedule of quantities	Uploaded separately
------------------------	----------------------------

SCHEDULE 'C' : Not Applicable

Tools and plants to be hired by the contractor

Sl.No.	Description	Hire charges per day	Place of issue
1	2	3	4

SCHEDULE 'D' : Not Applicable

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

SCHEDULE 'E'

Reference to "Conditions & Clauses of Contract" to be followed for this work

Name of work: " **Revamping of Primary Ventilation System of reduction section of NZSP at NFC, Hyderabad**" (Tender Notice No. E/520/2016)

(i) Estimated cost of work	Rs.161 Lakhs
(ii) Earnest money	Rs. 3,23,000/-
(iii) Performance Guarantee	5% of tendered value
(iv) Security Deposit	2.5% of tendered value

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:

Officer inviting tender: Dy chief engg(CED,EP,PD)

Definitions:

2(v)	Engineer-in-Charge	Superintending Engineer
2(viii)	Accepting Authority	Chief Executive, NFC/ Dy Chief Engineer/ Sr. Superintending Engineer
2(x)	Percentage on cost of materials and Labour to cover all overheads and profits	15% (Fifteen percent)
2(xi)	Standard Schedule of Rates	Prevailing Market rates

2(xii)	Department	Nuclear Fuel Complex, Hyderabad
9(ii)	Standard contract form of Department	Item rate tender

Clause 1

i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	15 days
ii) Maximum allowable extension beyond the period (provided in (i) above)	7 days

Clause 2

Authority for fixing compensation under Clause 2	Chief Executive, NFC
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Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start	15 days
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Mile stones as per Table given below

Table of Mile Stone(s)

Sl. No	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone
Time allowed for execution of work			8(Eight) months

Authority to decide:

(i) Extension of time	Engineer-in-charge
(ii) Rescheduling of mile stones	-

Clause 6, 6A

Clause applicable – (6 or 6A)	Clause 6/6A applicable
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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	More than Rs. 2 lakhs
---	------------------------------

Clause 10 A

List of testing equipment to be provided by the contractor at site lab (The list given below is indicative)

Flow , Pressure measurement devices		
-------------------------------------	--	--

Clause 10B(ii)

Whether Clause 10B(ii) shall be applicable	No
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Clause 10C

Component of labour expressed as percent of value of work	15%
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Clause 10CC**(Not Applicable)**

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

12 Months

Schedule of component of Cement, Steel, other Materials, Labour, POL etc for price escalation

1	Component of Cement- expressed as percent of total value of work	Xc	-
2	Component of Steel- expressed as percent of total value of work	Xs	-
3	Component of civil (except cement & steel)/ Electrical construction materials-expressed as percent of total value of work	Xm	-
4	Component of Labour-expressed as percent of total value of work	Y	-
5	Component of P.O.L-expressed as percent of total value of work	Z	-

Clause 11

Specifications to be followed For execution of work	NFC Specification/ CEA & AERB Regulations
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Clause 12

12.2 & 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for Building work	30%
12.5	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	-
12.5	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for maintenance work	-

Clause 16

Competent Authority for deciding reduced rates	Dy Chief Engineer
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Clause 18

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

1. Tool Kit	2. Drilling machine	3. Welding machine
4. Crane / Other lifting machinery	5. Ropes	6. Crimping tools

Note: The list of machinery, tools & plants to be deployed by the contractor at site are minimum. The contractor shall deploy additional machinery, tool & plants in order to maintain the progress of the work without any extra cost to the department.

Clause 36(i)**Requirement of Technical Representative(s) and recovery rate**

Sl. No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical representative)	Min Exp in yrs	No.	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)
1	Graduate Engineer (or) Diploma Engineer	Mechanical I Engineering	Principal Technical Representative	Nil for Graduate and 5 years for Diploma Engineer	1	Rs. 10000/- (Rupees ten Thousand only)
2	Degree/Diploma /ITI holder in engineering or science stream	Any Science /engineering stream	Safety supervisor	3 years	1	Rs. 10000/- (Rupees ten Thousand only)

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

Clause 42: Not Applicable

Statement of Wages: The minimum rate of daily wages payable to an employee employed on daily wages shall be as under:

Sl. No	Category	Daily wages payable
1	Highly Skilled Labour	Rs.487
2	Skilled Labour	Rs.448
3	Semi skilled Labour	Rs.407
4	Unskilled Labour	Rs.368

Approved Makes

TENDERERS SHOULD QUOTE USING ANY OF THE APPROVED MAKE ONLY.

1.	CENTRIFUGAL FANS	:	NADI / FLAKT / BATLIBOI/ ACCEL/ TWIN CITY FANS, KRUGER, NICOTRA, CHICAGO FANS, COMFRI, MAICO, GREENHECK, REITZ, TLT TURBO, TLT BOBCOCK, VIRANTIS, WOLTER, ZIEHL-ABEGG, SEAT, COLASIT or EQUIVALENT(If equivalent make is offered then, documentary proof of satisfactory performance for the last 10 years of atleast 3 identical fan's shall be submitted along with offer. If found satisfactory, then it shall be considered for evaluation. Else their offer shall be rejected.)
2	SCRUBBERS	:	BATLIBOI/ CPE, MUMBAI/ THERMAX/ VERANTIS, GEA, OUTATEC, CROLL RENOLDS, EQUIVALENT If equivalent make is offered then, documentary proof of satisfactory performance for the last 10 years of atleast 3 identical scrubber's shall be submitted along with offer. If found satisfactory, then it shall be considered for evaluation. Else their offer shall be rejected.).
4	MOTORS	:	KIRLOSKAR / CROMPTON / ABB / SIEMENS.
5	MCB DBS	:	MDS/HAGER(L&T)/GE POWER/SIEMENS/HAVELL'S
6	POWER/CONTROL CABLES	:	CCI / RPG / ICC / UNIVERSAL
7	STARTERS/SWITCHES/ CONTACTORS/MCB S	:	L & T / SIEMENS / GEC ALSTOM / ABB / GE POWER
8	ELECTRICAL PANEL (M.C.C.)	:	STANDARD OR, REPUTED VENDOR/ MANUFACTURER, SUBJECT TO APPROVAL OF THE DEPT.
9	SHEETS FOR SS DUCTING		SAIL, JINDAL, TATA
10	PUMPS		JOHNSON PUMPS-SPX FLOW, PROCESS PUMPS INDIA, CHEMFLO-AKAY PUMPS, KISHORE PUMPS, FLODYNE PUMPS, FLOW CHEM ENGG, KSB, KIRLOSKAR.
11	PUMP		AUDCO/ADVANCE/CASTLE/CRAWLEY & RAY/

	ACCESSORIES		KITZ/EMERALD/ LEADER/FLOWCON/VENUS
12	DAMPERS(ISOLATI ON, GRAVITY DAMPERS)		DTL, DEMCH,FOURESS, BDK, BOBCOCK, BACHMAN,BURGMAN,FLEXTOREFFOX, KELD, PATHWAY FLEXTRONICS, STEJASA, WES
13	GLAND/LUGS		JAINSON/HEX/DOWELLS
14.	ENTRAINMENT SEPARATOR/ MIST ELIMINATOR		MUNTERS, GEA, VERANTIS, KOCH GLITSCH, BEGG COUSLAND, SULZER
15	RIGID-PVC OR, PP (SHEETS)	:	RK / CAPRIHANS / GARWARE / FINOLEX.
16	POLYESTER RESINS	:	NAPTHA / BAKELITE HYLAM /ECMAS/DERAKANE
17	SPRAY NOZZLES		Spraying system inc, GEA, CHEMTROLS SAMIIL, LECHLER,



GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
NUCLEAR FUEL COMPLEX

TENDER NOTIFICATION/TENDER DOCUMENT FOR

Tender Notice No: E/529/2017

Name of the work

" Revamping of Primary Ventilation System of reduction section of
NZSP at NFC, Hyderabad"

FINANCIAL BID(PART-II)



Electrical Projects (Ventilation), 2nd Floor, Sarathi Building, ECIL Post,
Hyderabad – 500 062.

PREAMBLE TO SCHEDULE OF QUANTITIES

- 1.0 The scope of work involved "**Revamping of Primary Ventilation System of reduction section of NZSP at NFC, Hyderabad**" includes supply, erection, testing and commissioning of primary ventilation system .
- 2.0 The tenderers shall note that drawings attached to the tender are preliminary only and site visit may be done in the interest of contractor, which is meant to give an idea of the nature of work involved. The tenderers are advised in their own interest to visit the proposed site of work to acquaint themselves with the site and the working conditions. Successful tenderer shall submit clear engineering drawings containing specifications, design details, material MOC, elevation and dimension details etc. for all items and works for approval of Engineer-In-Charge. Work/fabrication shall be started only after getting approval of drawings/specification from Engineer-In-Charge.
- 3.0 The tenderers shall carefully go through the clauses in the notice inviting tenders, Tender and contract, General Rules and directions, conditions of contract, clauses of contract, safety code, model rules for Labour Regulations, etc. and special instructions to the tenderers as also specifications and shall include, in their rates, any sum they consider necessary for the fulfillment of the various clauses contained therein. The items of work and unit rates quoted in the schedule of quantities shall be inclusive of everything necessary to complete the said items of work within the contemplation of the contract and the rates may be quoted accordingly. No extra payment beyond the quoted unit rates shall be allowed for incidental or contingent work, labour, materials or plant unless the exclusions are specifically brought out in schedule of quantities.
- 4.0 The rates quoted by the tenderer shall also include for the following:
 - 4.1 Necessary care and precaution against damage/theft to equipment/materials, if any.
 - 4.2 Safe custody and storage of materials at site.
 - 4.3 Transportation of all required material to site, transit insurance, unloading and protection of materials including complying with all safety & security requirements for storing the materials if any.
 - 4.4 Accommodation of contractor's staff
 - 4.5 Protecting of all supplied/ installed equipments in the area of work falling within the scope of the contract.

- 4.6 Providing approaches required for conveying and spreading the excavated materials disposing of spoils, etc., including crossing over the existing drains, nullahs, etc, if required.
- 4.7 Providing scaffolding for height jobs.
- 4.8 The payment of minimum wages as notified by the State/Central Government and implementation of all regulations under contract Labour (Regulations and Abolitions) Act 1970 (Central) and Central Rules 1971 and the rules and orders issued there under from time to time as amended up to date. Necessary books of account and other document for the purpose of these conditions as may be necessary and shall allow inspection the same allowed by a duly authorized representative of Government and further such other information/document as the Engineer-in-charge may require.
- 4.9 For enforcement of the building and other construction workers (Regulations Employment & Conditions of Service) Act 1996 and building and other Construct Workers (RE & CS) Central Rules 1998.
- 4.10 All wastages and taxes including seigniorage tax, educational cess, VAT/turnover service tax, labour welfare cess etc., as applicable time to time.
- 4.11 Double handling of construction materials and machinery, if any, due to non-availability of space near the site.
- 4.12 Cost of construction power and water required for the work as stipulated elsewhere.
- 5.0 Following all the safety and security rules and regulations as required by the Department including deploying supervisor exclusively for safety.
- (i) While execution of job/any activities, if there is any deficiency in safety/lack of safety or inadequate supervision is found, contractor is liable to penalize as per discretion of Engineer-in-charge. Any accident, if takes place, will attract heavy penalty.
 - (ii) Non deployment of safety supervisor at site will be charged as per rules.
 - (iii) Minimum quantity of PPE proposed to be brought to site for use for implementation at site.
 - (iv) Delay in progress of work/completion of work in the effort of complying of safety whatsoever pertaining to it will not be considered as a genuine reason/cause for extent of time/or any other financial implications.
 - (v) Record of safety compliance to maintained.

- (vi) Contractor shall follow best engineering practices and shall deploy well experienced rigger at the time of erection of air handling units, condensing units ,ducting etc.
- 6.0 Police verification certificate regarding character and antecedents shall be taken for all labors engaged in the work from the police station where the person resides. Entry passes will be issued only on submission of police verification certificate.
- 7.0 Contractor shall submit medical fitness certificate for all laborers engaged in the work from a recognized/registered M.B.B.S doctor. Prescribed charges for obtaining police verification certificate and medical fitness certificate shall be paid by the contractor. Contractor shall arrange ESI all laborers engaged in the work and prescribed charges for arranging ESI shall be paid by the contractor.
- 8.0 Contractor shall follow and plan the works to meet the policies of NFC in line with ISO 9001, ISO 14001 & 18001.
- 9.0 Contractor shall follow all safety & security rules applicable to NFC time to time. No relaxation will be permitted.
- 10.0 Procurement source and makes for the all required equipment/material materials shall be got approved from the Department well in advance before initiating procurement along with relevant drawings and other records.
- 11.0 Provided that where any provision of the specification is repugnant to or at variance unless a different intension appears, the provision of the schedule of quantities shall be deemed to override the provision of the specifications and shall to the extent of such repugnance or variation prevail.
- 12.0 Agency and methodology for executing the specialized items shall be got approved from the Department before fixing the agency for such items.
- 13.0 The installation/equipment supplied and erected by contractor shall be guaranteed for 12 (Twelve) months from the date of completion and handing over against any manufacturing defects or bad workmanship. Security deposit will be released to the contractor only after successful completion of guarantee period.
- 14.0 Contractor shall submit the tender document in full by filling the required data and signing all the pages of tender document. Required EMD shall be accompanied the tender document. In complete tenders shall not be accepted.
- 15.0 The terms of payment will be as per Departmental payment terms and conditions as indicated below.

For Supply
75 % of supply value will be paid after completion of delivery
15 % of supply value will be paid after completion of erection of the material.
10 % supply value will be paid after commissioning of the supplied material.

For Erection
90 % of the erection value will be paid after completion of erection.
10 % of the erection value will be paid after commissioning

16.0 NFC Policy – Quality, Environment and Occupational Health & Safety Policy

We manufacture and supply

Fuel assemblies, core structural components and sub-assemblies for nuclear power reactors

Stainless steel/special alloy seamless tubes and high purity materials for various industries.

We are committed to

Quality requirements of customers,

Prevention of pollution

Provide health safe and conducive working environment to employees

Comply with the applicable statutory requirements

We strive to continually improve Quality, Environment and Occupational Health & Safety performance through technological & administrative measures and by enhancing awareness among employees.

ANNEXURE TO TENDER

SCHEDULE OF QUANTITIES

Tender No: E/529/2017

Name of the work: "Revamping of primary ventilation system of reduction section of NZSP at NFC, Hyderabad"

SL	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE		AMOUNT Rs.
				SUPPLY	ERECTION	
1	Design, Fabrication, Supply, Installation, testing and commissioning of PVC/FRP Spray Column Scrubber of capacity 15000 CMH with all accessories like flow alarm, level indicator etc. The other details as per the detailed specifications given in the tender document..	2	No			
2	Design, Fabrication, Supply, Installation, testing and commissioning of PVC / FRP Centrifugal fan of capacity 26000 CMH & 800 mm of WC static pressure. The other details as per the detailed specifications given in the tender document.	4	No			
3	Design, Fabrication, Supply, Installation, testing and commissioning of PVC / FRP Centrifugal fan of capacity 7500 CMH & 300 mm of WC static pressure. The other details as per the detailed specifications given in the tender document..	4	No			
4	Design, Fabrication, Supply, Installation, testing and commissioning of PP/FRP recirculation tank of size 1.5KL capacity along with necessary items such as level alarm, valves etc (for spray column scrubber).The other details as per the detailed specifications given in the tender document..	2	No			

ANNEXURE TO TENDER

SCHEDULE OF QUANTITIES

Tender No: E/529/2017

Name of the work: "Revamping of primary ventilation system of reduction section of NZSP at NFC, Hyderabad"

SL	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE		AMOUNT Rs.
				SUPPLY	ERECTION	
5	Design, Fabrication, Supply, Installation, testing and commissioning of corrosion resistant PP/PVC/laminated with FRP recirculation pump (along with necessary items) of minimum 50 Cu.mtr/hr capacity with suitable head (but not less than 30 m head)for enabling atomization in spray column scrubber. The other details as per the detailed specifications given in the tender document.	4	No			
6	Design, Fabrication, Supply, Installation, testing and commissioning of PP/FRP piping system required for circulation of scrubbing solution between recirculation tank and scrubber through 2 pumps(1 running+1 stand by).Material of piping shall be PP/FRP at outlet and inlet of the pumps including common header . the piping shall consist of all necessary items such as valves, flanges, gauges etc. The other details as per the detailed specifications given in the tender document..	2	set			
7	Design, Fabrication, Supply, Installation, testing and commissioning of PVC/FRP ducting with suitable tapping points at required places. The other details as per the detailed specifications given in the tender document..	400	Square meter			

ANNEXURE TO TENDER

SCHEDULE OF QUANTITIES

Tender No: E/529/2017

Name of the work: "Revamping of primary ventilation system of reduction section of NZSP at NFC, Hyderabad"

SL	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE		AMOUNT Rs.
				SUPPLY	ERECTION	
8	Design, Fabrication, Supply, Installation, testing and commissioning of SS316L ducting with suitable tapping points at required places. The other details as per the detailed specifications given in the tender document..	50	Square meter			
9	Design, Fabrication, Supply, Installation, testing and commissioning of SS316L Damper. The other details as per the detailed specifications given in the tender document.	1	Square meter			
10	Design, Fabrication, Supply, Installation, testing and commissioning of PVC/FRP dampers. The other details as per the detailed specifications given in the tender document..	5	Square meter			
11	Design, Fabrication, Supply, Installation, testing and commissioning of supporting structure lined with 3 mm FRP .The other details as per the detailed specifications given in the tender document.	1500	Kgs			

ANNEXURE TO TENDER

SCHEDULE OF QUANTITIES

Tender No: E/529/2017

Name of the work: "Revamping of primary ventilation system of reduction section of NZSP at NFC, Hyderabad"

SL	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE		AMOUNT Rs.
				SUPPLY	ERECTION	
12	MCC-1 : S I T C of 415 V, 3 phase 50 Hz, Motor control center made out of 12 SWG guage sheet steel with internal components of L&T/ Siemens/ ABB make including internal copper control wiring etc. to supply power to all the drives mentioned in sl no (3) & (5) above.The MCC shall be cubicle type, dust and vermin proof and shall be fabricated as per latest ISS and IE rules. The MCC shall be powder coated with light grey paint after seven-tank pretreatment process. The MCC shall be fabricated by any of the CPRI approved fabricators. MCC shall be supplied as per the detailed specifications. Earthling shall be provided with GI strip(hot dip galvanized) of 25x3 mm size including all required hardware for electrical equipments.	1	No			
13	MCC-2: S I T C of 415 V, 3 phase 50 Hz, Motor control center made out of 12 SWG guage sheet steel with internal components of L&T/ Siemens/ ABB make including internal copper control wiring etc. to supply power to all the drives mentioned in the sl no (2)above. The MCC shall be cubicle type, dust and vermin proof and shall be fabricated as per latest ISS and IE rules. The MCC shall be powder coated with light grey paint after seven-tank pretreatment process.	1	No			

ANNEXURE TO TENDER

SCHEDULE OF QUANTITIES

Tender No: E/529/2017

Name of the work: "Revamping of primary ventilation system of reduction section of NZSP at NFC, Hyderabad"

SL	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE		AMOUNT Rs.
				SUPPLY	ERECTION	
	The MCC shall be fabricated by any of the CPRI approved fabricators. MCC shall be supplied as per the detailed specifications. . Earthing shall be provided with GI strip(hot dip galvanized) of 25x3 mm size including all required hardware for electrical equipments.					
14	Supply, Installation, Testing & Commissioning of BIS Certified FRLS , XLPE insulated Armoured Copper Power Cables of suitable ratings/sizes including lugs, crimping and terminations identifying labels duly clamped for blowers, pumps , emergency push buttons etc(sizes shall be subjected to the approval of NFC). Pl refer detailed tender specifications for more information.	600	Mtr			
15	Supply, Installation and Testing of BIS certified PVC insulated Armoured FRLS copper control cable of suitable rating/size for control instruments of pumps ,blowers, local push buttons & scrubbers . (sizes shall be subjected to the approval of NFC). Pl refer detailed tender specifications for more information.	600	Mtr			

ANNEXURE TO TENDER

SCHEDULE OF QUANTITIES

Tender No: E/529/2017

Name of the work: "Revamping of primary ventilation system of reduction section of NZSP at NFC, Hyderabad"

SL	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE		AMOUNT Rs.
				SUPPLY	ERECTION	
16	Supply & Installation of Local Push button stations along with Emergency trip push buttons for above mentioned blowers along with housing for ON/OFF control with ON/OFF indication for each blower/ pumps. Components make: SIEMENS/L&T	7	set			
17	Supply & Installation of FRP cable tray. Supply and installation of cable trays and support :FRP ladder type cable trays of 300 mm width and associated MS lined with 2mm FRP support structure for entire cable laying.	300	Mtr			
18	PCC: Design and providing of PCC foundation for centrifugal fans, centrifugal pumps, pedestal for the scrubbers, tanks etc. The PCC specifications are as follows. PCC of grade M 20 including and using 20 mm maximum size graded aggregate using river sand and 43/53 grade cement, earthwork excavation of required size in all types of soil including soft and hard rocks if any, refilling the excavated earth after foundation is casted, consolidation finishing, curing, disposing unserviceable material, finishing etc.	2	Cu.mtr			

ANNEXURE TO TENDER

SCHEDULE OF QUANTITIES

Tender No: E/529/2017

Name of the work: "Revamping of primary ventilation system of reduction section of NZSP at NFC, Hyderabad"

SL	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE		AMOUNT Rs.
				SUPPLY	ERECTION	
19	RCC: Design and providing of RCC foundation for centrifugal fans, centrifugal pumps, pedestal for the scrubbers, recirculation tanks etc. The RCC specifications are as follows. RCC of grade M 20 including and using 20 mm maximum size graded aggregate using river sand and 43/53 grade cement, shuttering, scaffolding as required, with steel bars of TMT of FE 415, fabrication and tying of Bars not less than 80 Kg/cum with 18 gage binding wire, earth work excavation of required size in all types of soil including soft and hard rocks if any, refilling the excavated earth after foundation is casted consolidation finishing curing disposing unserviceable material, finishing, mud mat concrete of 1:4:8 of 100 mm thick complete providing necessary pockets and grouting using non shrink grouts after equipment grouting wherever necessary, and complete the job in all respect.	2	Cu.mtr			
20	Dismantling & disposal of existing scrubber , tank & cyclone with supporting structure. These items are being used in a chemical plant for last 10 years and hence it may contain traces of chemical compounds.	1	set			

ANNEXURE TO TENDER						
SCHEDULE OF QUANTITIES				Tender No: E/529/2017		
Name of the work: "Revamping of primary ventilation system of reduction section of NZSP at NFC, Hyderabad"						
SL	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE		AMOUNT Rs.
				SUPPLY	ERECTION	
21	Dismantling and disposal of the existing fan with supporting structure along with cabling and MCC. These items are being used in a chemical plant for last 10 years and hence it may contain traces of chemical compounds.	5	set			
22	Dismantling & disposal of existing ducting with supporting structure. These items are being used in a chemical plant for last 10 years and hence it may contain traces of chemical compounds. The duct has to be brought down with complete safety procedure specified by NFC. Removed ducting shall be stored at the place shown by NFC.	300	Square meter			
23	Dismantling & disposal of existing pumps with supporting structure. These items are being used in a chemical plant for last 10 years and hence it may contain traces of chemical compounds.	1	set			
	TOTAL in figures					

Total in words:

signature of the contractor with seal