



OFFICE OF THE MUNICIPAL COUNCILLORS OF KHARDAH
KHARDAH MUNICIPAL OFFICE
B.T.ROAD, KHARDAH, NORTH 24-PARGANAS, KOLKATA – 700 117

Memo No: KDHM/13/ELE.CREMA./NIET/2019-20

Date: 29/07/2018

Notice Inviting e-Tender

Ist CALL

E-TENDER NOTICE NO: KDHM/13/ELE. CREMA/ NIET/2019-20 Dt. 29.07.2018

01	NAME OF THE WORK	2 ND POLLUTION CONTROL UNIT OF ELECTRIC CREMATORIUM AT NATHUPAL GHAT KHARDAH
02	ESTIMATED AMOUNT	Rs.14,12,000.00 (Rupees Fourteen lakh twelve thousand only)
03	COST OF TENDER DOCUMENTS	Rs.1000.00 (Rupees One thousand only) per each set
04	EARNEST MONEY	Rs 28,240.00 (Rupees twenty eight thousand two hundred forty only .)

05. Documents to be endorsed With Tender paper:

01	Intending tenderer may download the tender documents from the website http://wbtenders.gov.in directly with the help of digital Signature .After opening of Tender only L1 tenderer shall submit the copy of the original Bid security and other documents(In original) to the tender Inviting Authority with his acceptance letter of the LOI Failure to submit the hard copy with acceptance letter within the stipulated time for the purpose, may be construed as an attempt to disturb the tendering process and delt with accordingly legally including blacklisting of the tenderer. .
02	Eligibility Criteria : The participant must be reliable resourceful and experienced firm or consortium who have successfully completed not less than 50% value of tender amount in nature of civil work in a single contract within last 3 (three) years from the date of issuing of the NIT under any Govt. / Semi Govt. / Under taking organization
03	Joint venture / Consortium will not be allowed.
04	The tenderer must have in Kolkata/North 24-Parganas Dist base office with competency to communicate or resolved any related to work with ULBS for speedy execution of work.
05	Legal disputes of any forms shall have to be resolved within Kolkata North 24-Parganas District jurisdiction.
06	Scanned copy of PAN Card, Valid Professional Tax certificate, Valid Income Tax (For Last 3 years), valid 15 digit Goods and Service tax prayer Identification number(GSTIN) under GST Act,2017, along with other supporting documents, Registration Certificate and/or Trade License of the company must be submitted duly digitally signed at desired location in the website https://wbtenders.gov.in

Phone: 2553-3060 / 2583-4943, FAX: 2563-1171

Email: khardahmunicipality@yahoo.co.in

Web site : www.khardahmunicipality.in



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07	Credentials, work order i.e. work Completion certificate and Payment certificate from the Competent Authority, Latest Bank Solvency Certificate of at least 50% of the tendered amount as proof of financial stability as per prescribed format , particulars of Partnership Firm, Partnership Deed, Proprietorship, Board of Directors , if any, and all labour related laws and benefits must be submitted duly self attested (stating 'submitted by me'), a written declaration in the form of an affidavit before Notary in non – judicial stamp paper as correctness of the copies (each copy shall also to be certified by the Notary of all documents submitted and a declaration of penalty / Debarment etc. faced by him under any Govt. / Semi – Govt./ Autonomous Body / Institution / Local Body along with hard copy on 12.08.2019 up to 14.00 Hrs. Those who will unable to submit the hard copy within the stipulated date and time, their tender will not be opened and considered as cancelled. E-mail, office fax, Mobile no. and address of issuing authority of certificate must be mentioned on the top of credential certificate.
08	Original documents may be verified by the tendering authority at its discretion.
09	Labour Cess @ 1% will be deducted from the bill
10	The rate quoted shall be inclusive of all charges, any type of taxes, duties like VAT, IT & all the labour related laws and benefits etc. applicable or as would be applicable from time to time during the time period of contract.
11	Please visit: www.khardahmunicipality.in or contact this office for future information.
12	Successful tenderers shall comply with provision of Contract Labour (Regulation and Abolition) Act 1970 and other relevant Act such as labour Cess etc. and subsequent amendment thereof and produce the same before tendering authority
13	If any of the above day stipulated as SI. No. (a) to (f) observes holiday/ abnormality for reason whatsoever the respective following working day shall be reckonable for the purpose.
14	The Authority reserves the right to reject or accept any or all tenders without assigning any reasons.
15	No mobilization advance & price escalation in any form will be allowed.
16	An undertaking for non-deviation in the non-judicial stamp paper of Rs. 50.00 in the following prescribed format.
17	"Undertaking for non-deviation "as follows:
18	It is certified that our offer is strictly based on stipulations made in the tender document and as per subsequent
19	Clarifications, if any, to be made by Khardah Municipality from time to time.



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(06. IMPORTANT INFORMATION DATE AND TIME SCHEDULE for E-TENDERING)

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. Documents (online) (Publishing Date)	02.08.2019 (14:00 hours)
2	Documents download start date (Online)	02.08.2019 (16:00 hours)
3	Documents download - end date (Online)	16.08.2019 (15:00 hours)
4	Bid submission start date (On line)	02.08.2019 (16:00 hours)
5	Bid Submission closing (On line) (After 14 days of publication)	16.08.2019 (15:00 hours)
6	Bid opening date for Technical Proposals (Online)	19.08.2019 (15.30 hours)
7	Date for opening of Financial Proposal(Online)	To be later on

Corrigendum/Addendum if any would be published on the website only

Executive Officer
Khardah Municipality
Executive Officer
Khardah Municipality

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATION FOR POLLUTION CONTROL UNIT WITH 30 M HEIGHT CHIMNEY.

1.0. Scrubber:

Type: Cylindrical Wet Type Venture Scrubber.

Duty: To Separate Particulars from hot air exhaust up to size of ten microns.

Material of Construction : S.S. AISI – 304

Position of water spray : from top

Water circuit : closed.

Efficiency : 95%

Nozzle : specially designed Brass made nozzle.

Concentration of particles : 150 mg/Ng (nominal cu. mtr.) in exhaust air.

Velocity of exhaust air : 1M/ sec.

Fume discharge : 1500 cu.m. per hour.

Rating of re-circulation : 2.0 H.P. pump

2.0. I.D. Fan :

Type : Centrifugal

Capacity : 2800 rpm

Pressure : 600 mm WG

Qty : 2 Nos.

3.0. Description of Pollution control Unit

3.1. Ventury Packed Wet Scrubber :

Dust laden flue from the furnace duct enters through the side of a cylindrical conical vessel (see sketch) and is forced to travel through an eccentric track similar to a volute. Because of this a large quantity of dust (mostly heavier particles) accelerates through the top of ventury portion of scrubber unit. The incoming gas is accelerated to a high velocity at the scrubber's throat where it comes into contact with the scrubbing liquid. The liquid is atomized into fine droplets which entrap the particulate with high collection efficiency. Downstream from the throat, the cleared gas decelerates and the particulate-laden droplets collide and agglomerate. The large, heavy, agglomerated droplets are driven into the flooded elbow for easy disposal. Droplets too small for collection at the flooded elbow is collected in the separator to complete the cleaning operation. Pressure drop across the venture throat is a measure of the energy needed to atomize the scrubbing liquid and to perform the cleaning operation. The higher the pressure drop, the higher the collection efficiency. This type of Ventury system offers the most efficient design for putting pressure drop to work. Its adjustable throat feature optimizes scrubbing efficiency by maintaining just the right pressure drop. This, combined with the unit's energy regain section, significantly reduce power consumption and operating costs and to arrest approximately 70% of the dust at the ventury section and 25% at the wet scrubber section and finally collected in recirculation settlement tank.

3.2 Droplet Separator :

Vane type drop separator works in the principal of inertia and the separator is affected in two stages.

A) Primary Separation

B) Secondary Separation.

A. Primary Separation :

A flow of gas laden with droplets flows through a specially formed baffle vanes. Forces of inertia acts upon the droplets while these are subjected to directional flow changes in the valve vanes. These forces divert the droplets from the original gas flow. The geometry of the baffle vanes, the nature of the gas and that of fluid, and the size and initial location of particular droplets, determine whether the gas will carry it through the space between the baffle vanes, or it will come in contact with one of the separator surface.

Droplet under given condition come 100% in-contact with baffle-vane and then join with other to form a film of liquid "limit droplets" are separated at this stage. At the same time only a small number of smaller droplet is separated at this stage.

The proportion of droplets carried on by the gas flow is designated "fraction degree of separation" and serves as a means of assessing the efficiency of droplet separation system.

B. Secondary Separation/ Mist Eliminator :

The curvature and shapes of baffle vanes are such that the film of liquid formed on their surface as a result of primary separation is completely removed from gas flow. This is generally achieved by the baffle vanes having specially formed phase-separation chamber. Where the droplet separation are concerned that have to work with a little pressure loss as possible, the baffle vanes are provided with a series of grooves that act as a phase separator. Depending on the application the phase separation chamber differ in shape and size. Apart from the directional change in flow, the number and form of phase separation chambers considerably affect the pressure loss across the droplet separation system

4.0. Induced Draft Fan :

The ID fan shall be capable to discharge 2200 M³/hour at a 60mm WG so as to control furnace pressure to slightly below atmospheric pressure. The capacity of the ID fan shall be designed by the bidder and shall be made accordingly, that suitable designed ID fan pull out the flue gases from the furnace and release it to the chimney. Before coming to the chimney it passes through the ventury packed wet scrubber, separator etc. Suitable ducting is provided in the system along with valves to carry and control the flow of the flue gas.

5.0. Electrical control Panel for pollution Control Unit. :

The panel shall be mainly for operation of ID fan, Recirculation Pump, Aviation Light, water pump and lights.

This Motor Control Center cum Power Distribution board shall be indoor cubicle type, floor / wall mounted, complete with all base channels, anchor bolts and other hardware as required. The panel shall be made from minimum 2 mm thick sheet steel (CRCA). The panel shall be finished in shade 631 of IS: 5.

All indicating instruments, control switches, indicating lamps shall be placed on the front of the panels. The panel shall have proper vermin proof and dust tight arrangement. Degree of protection for the entire panel shall be IP-55.

All cable entry shall be from bottom / top of the panel. Suitable cable glands and lugs shall be provided by the contractor for cable core termination. The panel shall be completely wired up for local operation. The panel shall be provided with one incomer and five outgoing feeders as stated below.

6.0. Water Circulation System:

Clean water is required for spraying in the scrubber mechanism and the return dirty water is also to be stored in another tank. One recirculation tank comprises three chambers and recirculation water pump with necessary pipe fittings are considered to feed clean water from the third chamber for spraying from the top scrubber mechanism and the return dirty water is stored in the first chamber. The process of sedimentation of water and particles is done with the help of three chamber system. In this process of sedimentation the particles are mostly sediment in the first two chambers and the clean water after sedimentation is collected in the third chamber. The sediment liquid from the bottom of first chamber is drained out by means of operating valve to Soak Pit with filter bed arrangement made of with different size granules. The sedimentation tank is cleaned every week or after cremation of 60 numbers body

whichever is earlier. Provision are also being kept to supply fresh water from alternate source of supply into third chamber.

Assistant Engineer
Khardah Municipality
Asstt. Engineer
Khardah Municipality

Chairman
Khardah Municipality
Chairman
Khardah Municipality



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FORM-I

(PRE-QUALIFICATION APPLICATION)
(If applicable)

01	Name of the Firm:	
02	Name & Address of Bankers	
03	Name & Address of Proprietors/ Partners / Directors	
04	Name & Qualification of Technical Persons / if any Attached of the Firm, vide Govt. order No. 5370(2) Dated 07.08.1972	
05	In favour of contractor Or Suppliers: Name, Address And contact no Of person who Will deal with the Municipality	

EXECUTIVE OFFICER
TENDER INVITING AUTHORITY
KHARDAH MUNICIPALITY

Executive Officer
Khardah Municipality

SIGNATURE OF THE TENDERER
WITH SEAL AND DATE



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07: SPECIAL TERMS AND CONDITIONS

01	The detailed estimates of the work and drawing may be seen from the office of the undersigned during working hours on any working day. One copy of drawing will be supplied to the contractor along with the work order.
02	The Tenderers are to inspect the site and acquaint themselves with the working condition before submission of Tender.
03	The contractor will be held responsible for any loss or damage to the Municipal or private properties if such loss or damage occurs due to negligence on the part of the contractors, contractor, will be liable for rectification of such damage on their own cost.
04	The successful Tenders have to execute a contract agreement in Form-97, vide -155 of Account rules, at their own cost in Non-Judicial Stamp of Rs.10/- within 7 days of the acceptance of the Tenders. Otherwise, the Tender shall be liable to cancellation by the undersigned.
05	The Earnest money and Security deposits will carry no interest.
06	The Security deposit will be refunded as per P.W.D. rules. If any, on account of liquidated damage, damage or loss caused by the contractors for their careless, negligent works, bad workmanship and of inferior quality of materials, if detected by our P.W.D. department/Water deptt/MED unit or any other authority of the Municipality in course of work or any time the re-after during the guarantee period.
07	The Earnest money will be forfeited in case of Tenderer fails to undertake to execute the work within the stipulated time as directed in the work order.
08	The contractor shall be responsible for rectifying defects in work as per P.W. Rules.
09	The Tenders shall quote rates at above/ less/ at per in percentage of the estimated amount both in figures and in words correction if any, in the Tender must bear initials with their rubber stamp and no erasing or overwriting and change in the specification should be made.
10	The Tenderers shall have not jurisdiction to change the specification of works, items of work not covered by the processed schedule if found essential for work, will be paid in accordance with the Schedule of rates of P.W.D.,I&WD, MED ,of Govt. of West Bengal , K.M.D.A. water supply schedule in materials and rates of labour and any schedule applicable in W.B. Govt. work whichever is less or applicable in that particular the right to alter any specification of work, if found necessary for the execution of work and such alteration will be paid as per above procedure.
11	The work must be completed by 30 Day from the date of issue of the work order.
12	Quantities and amount shown in the price schedule are approximate; payment will be made on actual quantity of work done at Tender rate. There will be no guarantee for the minimum or maximum quantity of work. The undersigned shall have the right to increase or decrease the quantity of work or to withdraw from the actual operation of any item of work in shown prices schedule or to delete any work from any group as in considered necessary by the undersigned.
13	The undersigned is not bound to accept the lowest or any tender and reserve the right to reject any or every Tenders without assigning any reason whatsoever and/or to negotiate with the Tenders in any manner considered suitable by the undersigned.
14	The undersigned reserves the right to send the tenders for. State Mission Directorate, HFA-PMAY/AMRUT/M.E.D./SUDA/CMU/ K.M.D.A./ Municipal affairs Deptt. for their appropriate action as and when necessary.
15	Income Tax, Vat, GST cess etc. as per Govt. decision will be deducted from the contractor's Bills.
16	Rates accepted will remain valid till the completion of the job any escalation in rates will not be entertained.
17	The contractors will be responsible for the safe guard of their materials and safety of their work

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	men at the own site.
18	Workmen employed by the contractor will be competent person and if any body, in the opinion of our site-Engineer / Supervisor is found in-competent and undisciplined shall be removed from work and shall not be employed, again without written permission of our Assistant Engineer/ Sub Asst. Engineer.
19	The contractors will pay wages to his workmen regularly and if for any reason wages remain unpaid for more than two weeks, the undersigned, reserves the right to recover the amount of said wages from contractor's bill for making payment to the workmen.
20	Housing and Travelling expenses of contractor's staff and labour will be contractor's responsibility.
21	Contractors will be required to provide a full time competent supervisor who will receive instruction from our Asst. Engineer / Sub-Asst. Engineer and site Supervisor from time to time and will be responsible to them for execution of work.
22	Any materials, machine or equipments if to be issued from the Municipality will be collected by the contractor from Municipal store and un-used materials, machine should be returned to store at their own cost.
23	Work shall have to be carried out in accordance with our planning and instruction.
24	Contractor will fulfil statutory obligation and maintain registers under the following Acts & Rules: a. Contract labour (Registration and Abolition) Act, 1970 b. Contract labour (Registration and Abolition) Act, 1971 c. Provident fund Act, 1952 d. Any other Rules framed by local Authority/ Government.
25	Contractors will be imposed penalty @2.00% on the bill if they fail to execute their works within stipulated time or no time extension is granted for the Municipal Authority for delayed execution of work
26	Lowest tenderer who quoted LESS than the estimated amount has to be deposit the difference of Tendered amount and Estimated amount by deducting the % LESS as per his offer rate the balance amount to be deposit in the form of Bank guarantee (Performa will be given during the issue of work order) as performance guaranteed amount which will be refunded after successful completion of the work in time.



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08: PAYMENTS :

While work in progress R.A. Bill may be paid for the work done if it is certified by our Sub-Asst. Engineer / Asst. Engineer to the extent of amount received from AMRUT / 13th or 14th Finance Commission, / K.M.D.A./ SUDA./ D.M/CMU. Fund/ M.P. Fund/ or any other Fund against the scheme on receipts of the bill A/c's will arrange payment within 15 days from the date receive of such Fund. or any other Fund after observing all standard procedure if fund available. Final payment will be arranged on realisation of Fund from AMRUT/SUDA/14th Finance Commission, or any other Fund against our final claim for the scheme. All Bills also to be certified by Chairman / Vice- Chairman /Chairman-in-Council/ Councillor.

09: LIQUIDATED DEMURRAGE :

01. In case of work remaining un-executed Liquidated demurrage will be charged @1% of the work value per week of delay to the maximum of 5%.
02. In case of any dispute or relaxation in clauses Board decision will be final.
03. Besides the above terms and condition provisions of Bengal Municipal Act and Account Rules and directives from M.E.D. / K.M.D.A. / different Govt. order will also be applicable from time to time.
04. Cement will not be available departmentally if not mentioned otherwise.

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10: GENERAL CONDITION OF TENDER

1. Sealed Tenders in prescribed form are invited from the P.W.D. / C.P.W.D. / Railway/ M.E.S. / any enlisted Govt. or semi Govt. or Local Body.
2. The Tenderers will have to produce valid Pan Card number along with 15 Digit GST Identification number Must as per Finance Deptt Notification No: 4374-F/Y w.e.f 01/07/2017, certificates of up to date clearance of P.T., Income Tax, GST No., Trade License and Credentials Certificates and clearance Certificates from the Municipality failing which their Tender shall not be taken into consideration.
3. The Tenderers shall have to deposit earnest money in the form of NSC/ Demand Draft/ Pay order drawn in favour of the undersigned. The particulars of the draft must be given on the back of Envelop.
4. The Tenderer must submit a copy of the Tender notice with the Tender paper with full signature on the space provided in the last page and initial on the other pages of it, along with this Tender in prescribed forms.
5. The Tender forms and other connected documents can be had from the cahier of the Municipality on payment of prescribed fees.

ASSISTANT ENGINEER
KHARDAH MUNICIPALITY

Asstt. Engineer
Khardah Municipality

EXECUTIVE OFFICER
TENDER INVITING AUTHORITY
KHARDAH MUNICIPALITY

Executive Officer
Khardah Municipality

Dated on _____

Khardah Municipal office,
Khardah, North 24 Parganas.




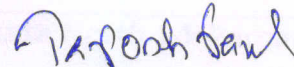
Office Seal & Date

**ESTIMATE FOR SUPPLYING, INSTALLATION, TESTING & COMMISSIONING OF STAINLESS STEEL
MAKE POLLUTION CONTROL DEVICE FOR EXISTING ELECTRIC CREMATION FURNANCE AT
NATHUPAL GHAT UNDER KHARDAH MUNICIPALITY**

SL NO	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (In Rupees)	AMOUNT (In Rupees)
01	Supplying, delivery at site, installation testing and commissioning of S.S.3-4 fabricated venture with packed wet scrubber and accessories complete including piping as required as per technical specification.	1 Unit	Each	Rs,4,60,000.00	Rs.4,60,000.00
02	Supplying, delivery at site, installation testing and commissioning of Mist eliminator with all accessories complete as required as per technical specification.	1 Unit	Each	Rs,2,20,000.00	Rs.2,20,000.00
03	Supplying, delivery at site, installation testing and commissioning of Induced draught fan and other accessories complete with suitable rain protection hood.	1 Unit	Each	Rs,1,93,000.00	Rs.1,93,000.00
04	Supplying, delivery at site and installation of necessary S.S.304 fabricated ducting to connect existing two furnace duct with pollution control unit along with Auto/Manual dumper control arrangement as per technical specifications.	1 Lot	Each	Rs,1,94,000.00	Rs.1,94,000.00
05	Supplying, delivery at site, installation testing and commissioning of Recirculation water pump along with necessary pipe line and accessories complete as required as per technical specification.	1 Unit	Each	Rs. 52,000.00	Rs.52,000.00
06	Construction of Multi stage slurry water tank of adequate capacity with soak pit with covering other necessary materials for soak pit.	1 Unit	Each	Rs,1,43,000.00	Rs.1,43,000.00
07	Control panel for A.P.C System with necessary cables and accessories from L.T panel and all other equipments	1 Unit	Each	Rs,1,50,000.00	Rs.1,50,000.00
TOTAL					Rs.14,12,000.00

(Rupees Fourteen Lakh Twelve Thousand only)


Assistant Engineer
Khardah municipality


Chairman
Khardah municipality