

**QUOTATION FOR SUPPLY, ERECTION, COMMISSIONING OF WASTE
BURNING PLANT AT NSMIMS, KOLLAM**



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1. DESIGN FOR SUPPLY AND COMMISSIONING OF ZERO-FUEL WASTE BURNING PLANT WITH SCRUBBER UNIT

DESCRIPTION

Must be capable of Handling General Solid Waste without using any fuel with capacity of **300Kg/hour** with Scrubber Unit (per day minimum 3 cycles)

COMBUSTION CHAMBER:

Should handle minimum temperature of 850 Deg C +/- 50

Inside of the combustion chamber is lined with heat resistant refractory bricks complying with BIS standards joining with refractory lining(full details of material used with drawing to be furnished and take approval from Engineer in charge). The fixed structure should be made by Heavy MS Structure.

CHIMNEY:

Made of corrosion free galvanized iron steel dia of 10 inches with a minimum height of 39 meters for both adequate dispersion plus draft for proper air flow. MS fabricated ladder for maintenance and lightning arrestor.

CONICAL SHELL:

Made of 10 mm MS coated inside with fire resistant concrete and insulating castable (Insulyte 7)

GRILL

18 mm Mild Steel

Doors:

Combustion chamber: 5 mm thickness MS carbon steel IS 2062 molded with fire resistant concrete and insulating castable (Insulyte 11).

Inspection door: 4.5 mm thickness MS carbon steel molded with fire resistant concrete and insulating castable (Insulyte 11).

PLANT HEIGHT WITH CHIMNEY: 39 metre

ASH COLLECTION CHAMBER:

The resulting ash residue should be collected through ash door.

SCRUBBER

Suitable scrubber should be provided so that the emission standards of PCB are met.

BLOWERS

As required for smooth functioning

WARRANTY & AMC

5 years for entire plant including chimney, should submit maintenance contract rate for further 5 years after warranty. Breakdowns should be attended and rectified within 24 hours except in extraordinary circumstances.

FOUNDATION:

The contractor should construct suitable foundation for carrying plant load with standard specifications and satisfaction of engineer in charge.

2. EXTENSION OF CHIMNEY OF EXISTING INCINERATOR

Existing Height	–	20 meters
Proposed Height	–	39 meters

The contractor should construct suitable structure for handling the load of chimney and strengthen the foundation if required with standard specifications and satisfaction of engineer in charge.

Contractor should quote the rates separately for item no 1 & 2

GENERAL CONDITIONS

The contractor who is quoting the work shall get themselves well versed with the site condition. The scope of work includes masonry work, fabrication, fixing and painting. The contractor should be well versed with all the activity and should have specialized team of workers for the same.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their quotation as to the nature of constitution already existing (so far as in 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 quotation. Contractor 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 contractor shall be responsible for arranging and maintaining at own cost all materials, tools and plants, facilities for workers and all other services required for the execution of the work unless otherwise specifically provided for in the contract documents. Submission of quotation by a contractor implies that he has read this notice and all other contract documents and has made himself aware of the scope and specification of the work to be done and of conditions and rates at which stores, tools and plants etc.

In case of items not covered by the above specification the work should be carried out as per the direction of Engineer-in-charge.

Approval of the Engineer -in-Charge shall be taken well in advance for the materials to be used in the work by the contractor.

All repairs and patch work shall be neatly carried out to match with the original finish and to the entire satisfaction of Engineer-in-Charge.

The contractor has to make his own arrangement for stores and watch and ward and no extra claim for this will be entertained. The contractor has to make his own arrangement at his own cost for all the general and special T & P.

SIGNATURE OF THE CONTRACTOR