



MORMUGAO PORT TRUST
ENGINEERING (MECHANICAL) DEPARTMENT
ELECTRICAL HEADLAND SECTION

CME/ELC/W-8/2021/492

06.12.2021

Sub: Painting of D.G. Set Chimney

Ref: Budgetary Quotation No. CME/XEN(E)/HL/W-5/21/B3

Mormugao Port Trust intends to carry out painting of existing chimney which is connected to 500 KVA D.G. Set. at Admin Bldg. As such Kindly furnish the budgetary quotation for the same (Scope of work enclosed as Annexure-I and Price Schedule enclosed as Annexure-II):-

Your budgetary quotation should reach to this office on 16.12.2021.

Thanking you,

Yours sincerely,

EXECUTIVE ENGINEER (E-HL)

SCOPE OF WORK

1. Introduction :

Mormugao Port Trust intends to carry out painting of existing chimney which is connected to 500 KVA D.G. Set. at Admin Bldg.

2. Scope of work:

The Scope of Work consists of surface cleaning & applying primer & heat resistant paint for 500KVA D.G. set exhaust chimney (approx. 20 mtr. height) alongwith connecting pipe from DG set to chimney. The work shall be carried out by providing all materials, safety equipment & scaffolding. The detailed technical specification is mentioned below.

3. Detailed Technical Specification:

- a. The outer surfaces of chimney shall be cleaned and scrapped thoroughly, until at least 95% of each element of surface area is free of all visible residues with desired surface profile.
- b. Painting work of entire outer surfaces of chimney for protection of environment corrosion by application of 1coat of Epoxy zinc phosphate primer and 2 coats of Heat resistant synthetic medium based two packs Aluminium paint with surface preparation by cleaning & polishing. The paint shall be applied uniformly on the surface, the type of which is given at Table -1. The sample of which has to be approved by the Port before commencement of work.
- c. All the paint materials shall be of first quality and conform to the following general characteristics as per the table-1.

Table -1

Sr. No.	Description	Requirement
1.	Technical name	Heat resistant synthetic medium based two packs Aluminum paint suitable up to 400°C dry temp.
2.	Over coating interval	Min. 24 hrs
3.	Temperature Resistance (minimum)	250 ⁰ c
4.	Colour	Silver grey

- d. Painting system for chimney covering surface preparation, application of primer coats and final coats to develop the required minimum dry film thickness on steel surface as per table-2.

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Table - 2

Sr. No.	Primer	Coating system (Finishing coat)	Total DFT in Microns (min.)	Remarks
1.	1 coat of Epoxy zinc phosphate primer	3 coats of Heat resistant synthetic medium based two packs Aluminum paint	60	Heat resistant synthetic medium based two packs Aluminum paint shall be ambient Temperature curing type.

- e. The surface is to be primed with one coat of primer within 4 hrs after the cleaning. If this period of 4 hrs. is not observed due to any reasons whatsoever, the surfaces indicated should be cleaned again before the coat of primer is applied.
- f. After painting first coat of finish paint 16 hrs of interval has to be observed for drying before painting the second coat of finish paint.
- g. Edges, corners, crevices, depression, joints and welds shall receive special attention to ensure that they receive painting coats of the required thickness.
- h. The Contractor has to arrange all tested tools and tackles, mechanical handling equipments, safety equipments, ladders, scaffolding etc. required for the completion of the job which are to be supplied by the contractor.
- i. The subject work shall be carried out as per relevant IS standard and also execute the electrical work as per Indian Electricity Rule (IER).

Safety Rules & Regulations for contractor's employees:- Port's Safety Rules & Regulations for contractor's employees as given in the Annexure - III will be complied strictly during the execution of various works at site. Contractor has to follow the Safety Rules & Regulations as per Indian Electricity Rules to do the electrical works. Port shall not provide any safety appliances and tools & tackles under any circumstances. Contractor shall ensure the use of safety appliances during the work at site. Contractor will take full safety measures and arrange the necessary safety gadgets / appliances, tools & tackles, helmet, safety belt, safety suit / uniform, safety net, ladders, trolley etc. as necessary.

PRICE SCHEDULE (BILL OF QUANTITIES)

NAME OF WORK: **Painting of D.G. Set Chimney**

Sr. No	Description	Unit	Qty	Rate/Unit(Rs.)		GST %	Amount (Rs.)	
				In Fig	In Words			
A	B	C	D	E	F	G	H=D x E	
1.	Painting Work of exhaust Chimney at Admin Bldg. as per Scope of work at Annexure-1.	LS	1					
Total								

(In words Rupees _____)

Note: The rates quoted shall be inclusive of transportation, lodging and boarding, but exclusive of GST. Applicable GST shall be paid extra as applicable.