

Technical Scope of Work

**Supply of Di Methyl Di sulphide (DMDS) in Drums, under a rate contract for a period of three years, to
BPCL Mumbai Refinery**

S. No.	Properties	UOM	Specification	Bidder's response	
				Test Method	Specification
	Chemical formulae		CH3-S2-CH3		
1.	Appearance		Clear		
2.	Physical state		Liquid	-	
3.	Colour		Colourless		
4.	Specific Gravity @ 20°C	g / ml	1.06 – 1.07		
5.	Molecular Weight	g / gmol	94.2	-	
6.	Purity	% wt.	Min. 99		
7.	Sulfur content	% wt.	Min. 67.4		
8.	Nitrogen content	% wt.	0.0		
9.	Methyl Mercaptan	ppm wt.	Max. 5,000		
10.	Water Content	ppmw	Max. 600		
11.	Flash Point (Closed Cup)	°C	16		
12.	Decomposition Temperature over Catalyst	°C	200		
13.	Thermal Decomposition Temperature	°C	390		
14.	Melting Point	°C	- 84.7		
15.	Boiling Point	°C	109.6		
16.	Cloud point	°C	Max. -5.0		
17.	Vapor Pressure at 25°C	mbar	38.0		
18.	Viscosity, Dynamic at 20°C	mPas	0.62		
19.	Solubility in water at 20°C	% wt.	0.25		
20.	Refractive Index @ 20°C		1.526		
21.	Packing Size	kg	-	-	
22.	Shelf Life	years	Min. 3.0	-	

- (1) Supply shall be based on the call-off purchase order that shall be issued from time to time as per the requirement of the refinery which may be either lower (nil, part or full) or higher quantities, during the contract period
- (2) Delivery within 4 weeks from the date of call-off purchase order
- (3) Bidder must provide Material Safety Data Sheet (MSDS) and Certificate of Analysis (COA) along with the technical bid
- (4) Bidder shall confirm that the Material Test Certificate (MTC) / Certificate of Analysis (COA) from the original manufacturer will be submitted along with each batch supply. Bidders not meeting this condition shall be rejected in technical evaluation
- (5) Certificate of Analysis (COA) shall be provided with each call-off order covering all BPCL specifications

- (6) All drums to be labeled with purchase order number, name of product, date of manufacture, expiry date, batch number, net weight of the chemical in kg and gross weight of the chemical in kg
- (7) Bidder to submit all pages of the technical specifications (duly signed and stamped) along with the technical bid.
- (8) Empty drums to be taken back from BPCL Mumbai Refinery premises without any extra cost.