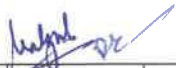
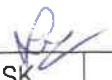
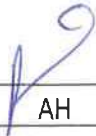

 <p>ONGC एन.ओ.ए.पी.एल MRPL</p>	<p>मैंगलोर रिफाइनरी एंड पेट्रोकेमिकल लिमिटेड Mangalore Refinery and Petrochemical limited Technical specification for Attapulgate clay for Kero Merox -II</p>	
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	<b>मैंगलोर रिफाइनरी एंड पेट्रोकेमिकल लिमिटेड</b> <b>Mangalore Refinery and Petrochemical limited</b> <b>Technical specification for Attapulgate clay for Kero Merox -II</b>	
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### 1. Introduction:

Mangalore refinery and petrochemical limited, Mangalore (hereinafter referred as MRPL), is subsidiary of Oil & Natural Gas Corporation Ltd. MRPL is a public sector undertaking involved in refining and marketing. MRPL refinery is located at Mangalore, Karnataka State, India. MRPL has three kero Merox units for ATF production. The current specification is for Attapulgate clay used in kero Merox 2 unit.

### 2. Process Description:




- 2.1. Straight run kerosene is feed to Kero Merox – 2 unit from crude distillation unit. The Merox process is licensed by UOP. The conversion of mercaptans takes place in fixed bed charcoal bed Merox reactor in presence of air in alkaline environment.
- 2.2. After reactor, the treated feed is subjected to post treatment comprising of water wash, salt dryer and clay tower.


### 3. Technical specification of Attapulgate clay

Parameter	Specification
Quantity	234 m3
Type	"Fuller Earth" type of Attapulgate Clay with low volatile matter content. <b>Bentonite/Montmorillonite &amp; Sepiolite Type Fuller Earth Clay ARE NOT ACCEPTABLE.</b>
Size	30-60 Mesh 100% mass retained on mesh 60 <2% mass retained on mesh 30
Bulk Density	560 kg/m3 Tolerance: (+/-) 5 kg/m3
Odour	Nil
Texture	Granular
Colour	White Grey
pH	7 (Neutral)

### 4. Documents/ Samples to be submitted with offer

- 4.1. One (1) Kg sample of offered clay for analysis of technical parameter specified above. The analysis of MRPL Laboratory shall be deemed as final. Vendor to note that only sample submission is allowed and resubmission of second sample is not permitted.
- 4.2. Proof of two number of supply (Purchase Order, delivery challan, successful operation certificate from buyer) Attapulgate clay (same as being offered for this tender) to refineries in India (Order from Owner – operator) for UOP licensed ATF/Jet Fuel Merox application in last ten years along with email id and contact details of officials from the owner operator for confirmation of supply details
- 4.3. Annexure duly filled, stamped/signed

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- 4.4. Recommended storage procedure.  
4.5. Recommended decommissioning procedure for spent clay after service.

#### 5. Guarantee

- 5.1. The vendor shall guarantee a shelf life of minimum 12 months from the date of supply at MRPL, Mangalore  
5.2. The bidder shall be solely responsible for the guarantee specified in 5.1. In case the bidder is the authorized dealer of OEM, the bidder shall specify in their letterhead the party who is responsible for providing guarantee as specified in 5.1  
5.3. 10% of Order value shall be retained against guarantee specified in 5.1. In case the shelf life as specified in 5.1 is not obtained, for no fault of MRPL, Vendor to forfeit the guarantee amount (10% of order value)  
5.4. In case the supplied clay (from successful bidder, after order placement) has a bulk density variation sieve analysis variation for more than +/- 10% from the sample submitted during tendering, MRPL reserve the right to bar the bidder from participating in future procurements. The analysis of MRPL laboratory shall be deemed as final

#### Annexure

Vendor must state categorically whether or not their offers meets all the requirements listed in technical specification. Any deviations from MRPL requirement should be listed clause wise in deviation format. Any deviation listed in the chapter shall be considered as compliance. Vendor has to fill up the below table dully filled, signed and stamped along with technical quote with the endorsement of the authorized person. In absence of the same, the technical offer may not be further considered.

SI	Details	Vendor Confirmation	Remarks
1	Bulk density of the offered Attapulgate clay in kg/m3		
2	Confirm that the clay is Attapulgate type only		
3	Weight in Kgs/ bag of clay that is offered		
	Chemical Composition analysis of clay offered & submitted by bidder		
4	Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> content , pH, chloride content of clay offered		
5	Bidder confirms that the guarantee for shelf shall be 12 months from the date of supply at MRPL, Mangalore		
6	Bidder understands that if the supplied Attapulgate clay( after order placement ) parameter as specified above have variations of more than +/- 10% of sample /specification submitted during tendering, bidder may be barred from future procurement tender of MRPL.		

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Mangalore Refinery and Petrochemical limited  
Technical specification for Attapulgate clay for Kero Merox -II

7	During supply of material ordered, the Bidder, if successful in being awarded the order, shall provide a declaration on their letter head (duly stamped & signed) of the following for the supplied Attapulgate clay: <ul style="list-style-type: none"><li>• Bulk density</li><li>• Sieve analysis as per technical specification</li><li>• Weight in Kg/bag of clay</li></ul>		
8	Bidder confirms that bidder is not on black list/ Holiday list of any central/state government department / Organization/ Public sector for current undertaking for the current tender period		
9	Bidder confirms that bidder is original Manufacturer/ Authorized dealer.		
10	In case the bidder is authorized dealer, authorization letter from original Manufacturer submitted for participation in the current tender		
11	Recommended procedure has been submitted for storage of offered material		
12	Bidder confirms that the bidder has read and accepted all terms and conditions specified in this technical specification		
13	Recommended procedure has been submitted for decommissioning spent Attapulgate clay after service life.		

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