

## OIL INDIA LIMITED

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**ANNEXURE-I****Tender No. : KIS2355P07/10****Tender Date : 14.08.2006**

Item No./ Mat. Code	Material Description	Quantity	UOM
<b>10</b> 85283036	<p><b>LINSEED OIL</b></p> <p>Product Description and End Use -----            A vegetable oil obtained by pressing the crushed seeds of flax plant linum usitatissimum. It is used in drilling mud as mud lubricant in top hole drilling.</p> <p>Specification :            -----</p> <p>1. Physical Properties :            -----            The material, as received, must be golden yellow, brownish yellow coloured clear viscous liquid free from suspended solids/impurities and other adulterants.</p> <p>2. Density at 26 +/- 2 degC : 0.9230 - 0.9280            3. Acid value, mgKOH/gm, maximum : 10.00            4. Moisture content, % by mass, max. : 0.25            5. Refractive Index at 40 degC : 1.4720 - 1.4750</p> <p>6. Performance Test :            -----            A.Lubricity test -            -----            (i) In fresh water mud - Prepare a 7.5% (w/v) bentonite suspension in distilled water using OIL approved bentonite and stir it for 15 minutes in multimixer so that no lumps are left after the stirring period. Age the suspension for 72 hrs. at 90 +/- 2 deg.C. After the lapse of aging period, adjust apparent viscosity of the suspension to 15 +/- 1 cp by dilution with distilled water. To this, add 0.5% (w/v) of the sample while stirring. After completion of addition, stir further for 30 minutes in a multimixer. Measure lubricity co-efficient by using a lubricity tester. Lubricity co-efficient must not be more than 0.15.</p> <p>(ii) In saline water mud - Prepare a 10% (w/v) bentonite suspension in distilled water using OIL approved bentonite and stir for 15 min. in multimixer so that no lumps are left after the stirring period. Age the suspension for 72 hrs. at 90 +/- 2 deg.C. After lapse of aging</p>	100000	L

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	<p>period, add 4% NaCl (w/v) (AR grade) and stir for 15 minutes in a multimixer. Age the suspension for 24 hrs. at 26 +/- 2 degC. Adjust the apparent viscosity to 15 +/- 1 cp by dilution with 4% NaCl solution, if necessary. To this saline mud, add 0.50% (w/v) of the sample in stirring condition and stir further for 30 minutes in a multimixer. Measure lubricity co-efficient by using a lubricity tester. Lubricity co-efficient must not be more than 0.20.</p> <p><b>B.Extreme Pressure Lubrication test -</b> -----</p> <p>(i) In fresh water mud - Prepare a 7.5% (w/v) bentonite suspension in distilled water using OIL approved bentonite and stir it for 15 minutes in multimixer so that no lumps are left after the stirring period. Age the suspension for 72 hrs. at 90 +/- 2 deg.C. After the lapse of aging period, adjust apparent viscosity of the suspension to 15 +/- 1 cp by dilution with distilled water and filter through 200 BSS mesh or equivalent sieve. Add 0.5% (w/v) of the sample to the bentonite suspension while stirring. After completion of addition, stir again in the multimixer for 30 min. Determine the film strength of the mud at 250 in-lb load with the help of a E.P. lubricity tester. The film strength must be 20,000 psi minimum.</p> <p>(ii) In saline water mud - Prepare a 10% (w/v) bentonite suspension in distilled water using OIL approved bentonite and stir for 15 min. in multimixer so that no lumps are left after the stirring period. Age the suspension for 72 hrs at 90 +/- 2 degC. After lapse of aging period, add 4% NaCl (w/v) (AR grade) and stir for 15 minutes in a multimixer. Age the suspension for 24 hrs. at 26 +/- 2 deg.C. Adjust the apparent viscosity to 15 +/- 1 cp by dilution with 4% NaCl solution, if necessary and filter through 200 BSS mesh or equivalent sieve. Add 0.5% (w/v) of the sample while stirring and stir further for 30 minutes in multimixer Determine the film strength of the mud at 250 in-lb load with the</p>		

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	<p>help of a E.P. lubricity tester. The film strength must be 15,000 psi minimum.</p> <p>C.Foam Test - ----- Prepare a 7.5% (w/v) bentonite suspension in distilled water using OIL approved bentonite and stir for 15 min. in multimixer. Age the suspension for 24 hrs. at 26 +/- 2 degC. Adjust the apparent viscosity of the suspension to 15 +/- 1 cp by dilution with distilled water. Add 0.5% (w/v) of the sample to it and stir for 30 minutes in a multimixer. Determine the specific gravity of the mud. The specific gravity of the mud must not be less than 0.8.</p> <p>8. Packing : The material must be packed in 50 litre capacity leak proof HDPE carbuoys with leak tight stopper and screw caps strong enough to withstand rigours of transit and storage.</p> <p>9. Markings : Each carbuoys must have clear legible markings as given below :</p> <p>(i) Name of the product (ii) Name of the supplier (iii) Date/month/year of manufacture (iv) Supply order number against which the supply is made.</p> <p>N.B. : Apparent viscosity must be measured by a --- Fann VG meter and lubricity must be measured by a E.P. lubricity tester.</p>		

- Special Notes** :
1. Bidders must submit 500 ml tender sample along with their offered to assess suitability of their offered product, failing which their offer will be straight way rejected. Our tender / your quotation reference must be mentioned clearly on the container. Samples received after the due date and time shall not be accepted.
  2. 100 % payment will be released only after receipt and acceptance of the material at Duliajan, Assam. The bidder must confirm acceptance of the same in their offer.
  3. Tentative delivery schedule shall be @ 20 kl per month to be commenced as early as possible from the date of order placement to meet our urgent requirement. Bidders to note the same and quote their best delivery accordingly.