OIL INDIA LIMITED

(A Government of India Enterprise)
P.O. Duliajan, Pin – 786602
Dist- Dibrugarh, Assam

AMENDMENT NO. 1 DATED 03.07.2019 TO TENDER NO SSG1033P20/05

1.0 This Amendment no. 1 dated 03.07.2019 to tender no. SSG1033P20/05 for supply of **Polymeric Deflocculant** is issued to incorporate the following changes in the tender.

Polymeric Denocculant is issued to incorporate the following changes in the tender.	
EXISTING SPECIFICATION	REVISED SPECIFICATION
Polymer Based Mud Thinner	Polymer Based Mud Thinner
Polymeric Deflocculant.	Polymeric Deflocculant.
1. Physical State: The polymer should be in the	1. Physical Properties: The material should be
form of white free flowing, dust free micro	in the form of white free flowing and dust free
beads/liquid miscible with water.	micro - beads / viscous transparent liquid.
2. Dispersibility: Should be easily dispersible	2. NO CHANGE
in water.	
3. Particle Size: 100% through 20 mesh ASTM	TO BE DELETED
or equivalent.	
4. Specific gravity: 1.15 (in case of liquid)	3. Specific gravity: 1.15 – 1.25 (in case of
	liquid)
5. PH of sample:8.0 (in case of liquid)	4. PH of sample: 8.0 – 9.0 (in case of liquid
	sample)
6. Performance Test in:	5.Performance Test in:
A. Fresh Water mud:	A. Performance at 26 +/- 2 DegC:
(i) Preparation of base mud. Prepare a 10 %	(a) Preparation fresh water mud. Prepare
(w/v) bentonite suspension in distilled water	base mud of 10 % (w/v) bentonite suspension
using OIL approved bentonite and stir in	in distilled water using OIL approved bentonite
multimixer for 15 minutes so that no lumps are	and stir the mixture in multimixer for 15
left after the mixing period. Age the suspension	minutes so that no lumps are left after the
at 90 +/- 2 DegC for 72 hrs. Cool the	stirring period. Age the suspension for 72 hrs at
suspension and stir for 15 minutes in	90 +/- 2 DegC. After the lapse of the aging
multimixer. Adjust apparent viscosity of the	period, cool the suspension and adjust apparent
suspension to 52.5 +/- 205 cp by dilution with	viscosity to 50 - 55 cp by dilution with distilled
distilled water, if necessary.	water. Measure rheological properties at 26 +/-
	2 DegC
	(i)Apparent viscosity, cp: To determine
	(ii) Yield value, lbs/100ftsq: To determine
(ii) Preparation of treated mud. Treat the base	(b)Preparation of treated mud: Treat the base
mud 6A (i) with 0.15 % (w/v) of polymeric	mud with 0.10% (w/v) of the polymeric
deflocculant sample and adjust the PH to	deflocculant sample and adjust the pH to the
around 8.5 by 1 N NaOH solution. Stir for 30	range 8.5 - 9.5 by adding 1N NaOH solution.
minutes in multimixer. Measure apparent	Stir for 15 minutes in multimixer. Determine
viscosity. Yield point and 15 min. gel in a Fann	apparent viscosity and yield value
VG meter at 26 +/- 2 DegC which should be as	
under:	

(a) Apparent viscosity cd max.: 10	i)Apparent viscosity, cp : should be less than 25
	% of base mud
(b) Yield value. 1b /100 ft sq, max.: 15	ii)Yield value, lbs/100ft sq : should be less than 25 % of base mud
(c) 15 minute gel. 1b/100 ftsq max.:10 Age this	B. Performance Test at 160 + / - 2 DegC
mud at 160 +/- 2 DegC for 16 hrs. in rolling	Hot roll part of above base mud at 160 +/- 2
condition. Cool the mud and stir for 15 minutes	DegC for 24 hrs at roller oven. Cool the mud
in a multimixer. Adjust the PH at 8.5 if	and stir for 15 min. in a multimixer. Determine
necessary. Determine apparent viscosity yield	apparent viscosity and yield point at 26 +/- 2
value and 15 min. gel at 26+/- 2 DegC which	DegC
should be as follows.	(i) Apparent viscosity, cp: To determine
(a) Apparent viscosity, cp. max: 10	(ii) Yield value, lbs/100ftsq: To determine
(b) Yield value, 1b/100 ftsq, max :15	
(c) 15 min. gel, 1b/100 ftsq, max :10	
Age this mud at 160 +/-2 DegC for 16 hrs.in	Hot roll a part of the above treated mud at 160
rolling condition.	+/- 2 DegC for 24 hrs. Cool the mud and stir
Toming Condition.	for 15 minutes and determine apparent
	viscosity, yield value at 26 +/- 2 DegC
Cool the mud and stir for 15 minutes in a	i) Apparent viscosity, cp: should be less than
multimixer. Adjust the	25 % of base mud (160 DegC)
PH at 8.5 if necessary. Determine apparent	ii) Yield value, lbs/100ftsq: should be less than
viscosity, yield value and 15 min. gel at 26+/-2	10 % of base mud (160 DegC)
The state of the s	10 % of base flidd (100 Dege)
DegC which should be as follows:	
(a) Apparent viscosity, cp max.:25	
(b) Yield value, lb/100 ftsq, max :15 (c) 15 min. gel, lb/100 ftsq, max : 10	
(c) 13 mm. ger, 10/100 ftsq, max . 10	
B. Saline Water Mud:	
(i) Preparation of base mud. Prepare a 10 %	
(w/v) bentonite suspension in distilled water	
using OIL approved bentonite and stir the	
suspension in a multimixer for 15 minutes so	
that no lumps are left after the stirring period.	
Age the suspension for 72 hrs at 90 DegC. Cool	
the suspension and stir in a multimixer for 15	
minutes. Adjust the apparent viscosity to 52.5	
+/- 2.5 cp with distilled water, if necessary.	
Add 4% Nacl (LR grade) to it and stir again for	TO BE DELETED
15 minutes. Age the salt treated mud at 26 +/- 2	
DegC which should be as follows.	
(a) Apparent viscosity, cp max, : 20	
(b) Yield point. 1b/100 ftsq. max. :25	
(c) 15 min.gel. 1b/100 ftsq. max :30	
Age this mud at 160 +/- 2 DegC for 16 hrs. in	
rolling condition. Cool and stir in multimixer	
for 15 minutes. Determine apparent viscosity.	
yield value and 15 min. gel of the salt treated	

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mud at 26+- 2 DegC which should be as under.	
(a) Apparent Visc. cp : Should not be more	
than that of 4B(ii.a)	
(b) Yield value. : 1b/100 ftsq.	
Should not be more than that of 4B(ii.b)	
(c) 15 min. gel :1b/100 ftsq : Should not be	
more than that of 4B(ii.c)	
7. Packing: The material should be packed in	NO CHANGE
multiwalled paper bags with at least two	
innermost layers suitably water proofed strong	
enough to withstand rigours of transit and	
storage. Capacity 25 kg net per bag. In case of	
liquid: The material should be packed in 25/50	
ltr. capacity leak proof HDPE/MS Drums.	
strong enough to withstand rigours of transit	
and storage.	
8. Markings: Each bag/drum should have clear	NO CHANGE
legible markings as given below: (i)Name of	
the product. (ii) Name of the supplier/	
manufacturer. (iii) Date/Month/Year of	
manufacture. (iv) Supply order number against	
which the present supply is made.	
N.B: Apparent viscosity yield point and gel	TO BE DELETED
values will be measured	
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2.0 All other terms and condition of the tender will remain unchanged.

sd-Adarsh Ranjan Padhy Sr. Purchase Officer (FS) For GM MATERIALS For Resident Chief Executive