

RAAJ UNOCAL LUBRICANTS LTD.

QUALITY MANAGEMENT SYSTEMS	QUALITY MANUAL	Doc. No. – RULL/QM/01
	TITLE :TABLE OF CONTENTS	Rev. No. – 00 Date: Issue No.- 01 Date :01.01.2018

MASTER LIST OF LAB EQUIPMENTS INSTALLED

S.No.	Instrument Name	Make	Range	Quantity
1	Constant Temp. Oil Bath at 100°C	Raaga Industries	98.5 to 101.5°C	1
2	Constant Temp. Water Bath at 40°C	Raaga Industries	38.5 TO 41.5°C	1
3	Potentiometric Titrimeter	Metrohm	NA	1
4	pH Meter	Metrohm	1 to 14	1
5	Coulometric Karl Fischer	Metrohm	Min 1.0 ppm	1
6	Copper Strip Test App.	EIE Instruments (p) Ltd.	-20 to102°C	1
7	Colorimeter	Petroleum Ins. India (P) Ltd.	0 to 8	1
8	Oven	NSW	1 to 250°C	1
9	Muffle Furnace	NSW	1 to 1200°C	1
10	Pensky Marten Closed Cup	Petroleum Ins. India (P) Ltd.	20 to 370°C	1
11	Cleveland Open Cup	Petroleum Ins. India (P)Ltd.	-6 to +400°C	1
12	Centrifuge machine	Remi	NA	1
13	Ramsbottom Carbon Residue App.	Petroleum Ins. India (P) Ltd.	NA	1
14	Distillation Apparatus	NA	NA	1
15	Pour Point Apparatus	Petro Test	+50 to -50°C	1
16	Foaming Test Apparatus	Petroleum Ins. India (P) Ltd.	-20° to 102°C	1
17	Bomb Calorimeter	Petroleum Ins. India (P) Ltd.	min.0.1%	1
18	Conradson Carbon Residue Apparatus	Petroleum Ins. India (P) Ltd.	NA	1
19	Four Ball Tester	Ducom	6 to 800 kg	1
20	ICP - OES	Perkin Elmer	NA	1
21	Cold –Cranking Simulator (CCS)	CANNON Instrument Company	-5 to -40°C	1
22	Penetrometer	Petroleum Ins. India (p) Ltd	0 to 400 mm	1
23	Grease worker	Petroleum Ins. India (p) Ltd.	NA	1
24	Drop point App.	Petroleum Ins. India (p) Ltd.	-5 to +300°C	1
25	Aniline Point App.	Petroleum Ins. Indai (p) Ltd.	25 to170°C	1
26	Rust Preventing App.	Petroleum Ins. India (p) Ltd.	NA	1
27	Hot Plate	NA	NA	1
28	Digital Analytical Weighing Balance	Eagle	0 to 120 gm	1
29	Canon Fenske Routine Viscometer	Canon	Different Constants	10
30	Stop Watch	Racer	Standard	2

Prepared By : Chemist - QC	Approved By : General Manager – Operations & QC Head
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