Technical Comparison

Sr.No	Tests	Specification	MAK	TATA	EICHER	Gulf Oil	India Blue
1	Description	Clear or slightly yellow liquid, oderless or having slight scent of ammonia	Clear having slight scent of ammonia	Clear having slight scent of ammonia	Clear having slight scent of ammonia	Clear having slight scent of ammonia	Clear having slight scent of ammonia
2	Specific Gravity	1.087-1.093	1.091	1.089	1.09	1.09	1.094
3	Urea Content	31.8-33.2%	32.28%	32.61%	32.63%	32.07%	32.18%
4	Refractive index at 20° C	1.3814-1.3843	1.3825	1.3832	1.3829	1.3828	1.3826
5	Ammonia Content	Not more than 0.2% w/w	0.67%	0.03%	0.00%	0.01%	0.04%
6	Biuret Content	Not more than 0.3% w/w	0.10%	0.11%	0.11%	0.10%	0.15%
7	Aldehyde Content	Not more than 5 mg/kgf(ppm)	0.56 ppm	0.470 ppm	0.398 ppm	0.569 ppm	0.238 ppm
8	Insoluble Particles Content	Not more than 20 mg/kgf(ppm)	13.0 ppm	15.69 ppm	13.75 ppm	12.76 ppm	13.82 ppm
9	Phosphate Content	NMT 0.5 PPM	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Trace Element Content	Calcium Content : NMT 0.5 ppm	Not Detected	0.08 ppm	Not Detected	Not Detected	Not Detected
		Iron Content : NMT 0.5 ppm	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
		Copper Content : NMT 0.2 ppm	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
		Zinc Content : NMT 0.2 ppm	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
		Chromium Content : NMT 0.2 ppm	Not Detected	0.01 ppm	Not Detected	Not Detected	Not Detected
		Nickel Content :NMT 0.2 ppm	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
		Aluminium Content : NMT 0.5 ppm	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
		Magnesium Content : NMT 0.5 ppm	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
		Sodium Content : NMT 0.5 ppm	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
		Potassium Content : NMT 05.ppm	Not Detected	Not Detected	Not Detected	Not Detected	0.02 ppm
11	Identification by FTIR	The sample spectrum shall concordant to the standard spectrum	Concordant standard spectrum	Concordant standard spectrum	Concordant standard spectrum	Concordant standard spectrum	Concordant standard spectrum