The Specifications of 73/75 BPL Grade Rock Phosphate

Sr. No.	Chemical Analysis on Dry basis at 105º C	Unit	By weight
1.01	Bone Phosphate of Lime (BPL Grade)	Basis	73 - 75
1.02	Phosphorus Pentoxide (P2O5)	Basis	33.41
1.03	Calcium Oxide (CaO)	% Max.	51
1.04	CaO / P2O5 Ratio	-	1.48 - 1.50
1.05	Total Silica (TSiO2)	% Max.	4
1.06	Active Silica	% Min.	2
	Active Silica to Fluorine ratio	Min.	0.5
1.07	Carbon Dioxide (CO2)	% Max.	5
1.08	Florine (F)	% Mac.	3.9
1.09	Chlorine (C1)	% Max.	0.04
1.1	Iron Oxide + Aluminium Oxide (Fe203 + Al203)	%	0.35 - 0.80
1.11	Organic Matter as C	% Max.	0.25
1.12	Sulphur Trioxide (SO3)	% Max.	1.4
1.13	Sodium Oxide (Na2O)	% Max.	0.6
1.14	Potassium Oxide (K2O)	% Max.	0.05
1.15	Magnesium Oxide (MgO)	% Max.	0.35
1.17	Moisture	%	3.00 – 5.00
2	Tyler Mesh size Analysis		
2.00.1	+ 4	%	0 – 2
2.00.2	- 4 + 100	%	70 – 80
2.00.3	- 100 + 200	%	15 – 30
2.00.4	-200	%	2 – 6

Other details for information only

Sr. No.	Chemical Analysis on Dry basis at 105º C	Unit	By weight
1.16	Other Trace Elements'		
1.16.1	Arsenic (As)	Ppm Max	7
1.16.2	Cadmium (Cd)	Ppm Max	5
1.16.3	Chromium (cr)	Ppm Max	100
1.16.4	Mercury (Hg)	Ppm Max	2
1.16.5	Lead (Pb)	Ppm Max	2
1.16.6	Uranium (U)	Ppm Max	80
1.16.7	Vanadium (V)	Ppm Max	70
1.16.8	Any other trace	Ppm Max	N.D.
1.18	Loss of Ignition (LOI) @900 Deg. Cent.	% Max.	8
1.19	Bulk density	-	1.40 - 1.60