

TECHNICAL SPECIFICATIONS CHEMICAL FERTILIZER

The bidder shall fill the columns 4 and 5. Failure to provide the information requested in the columns 4 and 5 may be a reason for the rejection of the bid. Supplier should certify the information provided here by a company seal with a signature of an authorized officer.

(1)	(2)	(3)	(4)	(5)
Line Item No	Description of Goods or Related Service	<i>Technical Specifications and Standards</i>		
		<i>Purchaser's Requirements</i>	<i>Bidder's Offer</i>	
		<i>Detail</i>	<i>Yes(Y)/ No(N)</i>	<i>Remarks</i>
1.	Urea	<p>Material shall be white in color, free flowing and shall be free from visible impurities & dust and granular or prilled.</p> <p>Total nitrogen (dry mass basis) : 46.0 % N minimum Moisture (dry mass basis) : 1.0 % maximum Biuret (dry mass basis) : 1.0 % maximum</p>		
	<i>Packing</i>	The material shall be suitably packed in sound, strong and moisture-proof multiwalled bags having jute bags or woven polypropylene bags with polyethylene inner lining having a minimum thickness of 50 µm.		
2.	Eppawela Ground Rock Phosphate (ERP): fertilizer grade	<p>The material shall consist essentially naturally occurring phosphate rock in the form of free-flowing powder. It shall be free from hard lumps and visible foreign matter.</p> <p>Total Phosphate (dry mass basis) as P₂O₅ : 28 % minimum Citric Acid Soluble phosphorus content on dry basis, calculated as P₂O₅ : 4 % minimum Fluoride as F, % by dry mass basis : 3 % maximum Moisture content : 3 % maximum</p> <p>Not less than 90 % of the material shall pass through a sieve of aperture size 0.15 mm and the balance shall pass through a sieve of aperture size of 0.25 mm</p>		

	<i>Packing</i>	The material shall be suitably packed in sound, strong and moisture-proof multiwalled bags having jute bags or woven polypropylene bags with polyethylene inner lining having a minimum thickness of 50 µm.		
3.	Triple Super Phosphate (TSP)	<p>The material should be free-flowing. It shall be free from hard lumps and visible foreign matter.</p> <p>Total Phosphorus as P₂O₅ by mass : 46 % minimum Moisture content : 4 % maximum Water soluble phosphorus, of the total phosphorus as P₂O₅ by mass : 80% minimum</p> <p>Not less than 90 % of the material shall pass through a sieve of aperture size 4.0 mm and shall be retained on 1.00 mm sieve and not more than 5% shall be below 1.00 mm sieve</p>		
	<i>Packing</i>	The material shall be suitably packed in sound, strong and moisture-proof multiwalled bags having jute bags or woven polypropylene bags with polyethylene inner lining having a minimum thickness of 50 µm.		
4.	Muriate of Potash (MOP)	<p>Total K₂O (dry mass basis) : 60.0 % K₂O minimum Moisture content : 1.0 % maximum Sodium content as NaCl : 3.5 % maximum</p> <p>Particle size (Crystalline powder) : Not less than 65 % of the material shall pass through a sieve of aperture size 1.7 mm and not more than 5% of the material shall pass through a sieve of aperture size 0.25 mm</p>		
	<i>Packing</i>	The material shall be suitably packed in sound, strong and moisture-proof multiwalled bags having jute bags or woven polypropylene bags with polyethylene inner lining having a minimum thickness of 50 µm.		
5.	Dolomite	<p>The material shall consist essentially naturally occurring dolomite rock in the form of free-flowing powder. It shall be free from visible foreign matter</p> <p>Total Magnesium as MgO (dry mass basis) : 18% Minimum Matter insoluble in Hydrochloric Acid by mass% : 10 % maximum</p> <p>Particle size: Not less than 50 % and not more than 70 % by mass of the material passes through a sieve of 150 µm (0.15 mm or 100 mesh)</p>		

		aperture size and not less than 99 % of the material passes through a sieve of 500 µm aperture size.		
	<i>Packing</i>	The material shall be suitably packed in sound, strong and moisture-proof multiwalled bags having jute bags or woven polypropylene bags with polyethylene inner lining having a minimum thickness of 50 µm.		
6.	<i>Kieserite</i>	<p>The material shall consist essentially of magnesium sulfate mono hydrate and shall be in the form of a free-flowing crystalline powder or granules, off-white in colour and shall be free from visible foreign matter.</p> <p>Total MgO content (dry mass basis) : 24.0 % minimum Mineral acid soluble sulfate content : 47.7 % minimum Moisture content (by mass) : 13.0 % maximum Total Ca content as CaO (by mass) : 2.0 % maximum</p> <p>Water solubility- Not less than 20 % and not more than 40 % at room temperature</p> <p>Particle size: Not less than 90 % shall pass through a sieve of aperture size 1.70 mm and not more than 50 % shall pass through a sieve of aperture size 150 µm.</p>		
	<i>Packing</i>	The material shall be suitably packed in sound, strong and moisture-proof multiwalled bags having jute bags or woven polypropylene bags with polyethylene inner lining having a minimum thickness of 50 µm.		