

12012/20/2007-FPP  
Government of India  
Ministry of Chemicals & Fertilizers  
Department of Fertilizers

Shastri Bhawan, New Delhi  
Dated the 13<sup>th</sup> April, 2017

To

MD/CMDs

RCF/MFL/BVFCL/NFL/KRIBHCO/IFFCO/GSFC/GNVFC/SPIC/NFCL/CFCL/TAT  
A/ ZACL/INDO-GULF/SPIC/KSFL/MFCL/KFCL/SFC/IPL/CIL.

**Subject: Policy for encouraging production and availability of fortified and coated urea in the country – reg.**

Sir/Madam,

I am directed to forward herewith the Fertilizer (Control) Amendment Order, 2017 dated 6<sup>th</sup> February, 2017 issued by Department of Agriculture, Cooperation & Farmers Welfare (DACFW) wherein the specification of Neem Coated Urea (NCU) and Neem Oil, Foot Note refers, to be used for the purpose of production of Neem Coated Urea have been amended, as follows:

<b>8. Neem Coated Urea</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight, (on dry basis), minimum	46.0
(iii)	Biuret per cent by weight, maximum	1.5
(iv)	Neem oil content soluble in Benzene, per cent by weight, minimum	0.035
	Particle size-Minimum 90 per cent of the material shall be retained between 1 mm and 2.8 mm IS sieve.	
Foot Note: - the Neem oil used for the manufacturing of Neem Coated Urea may be of the following specifications		
	Moisture and insoluble matter per cent by wt. Max	: 1.0
	Specific gravity at 30° C	: 0.85-0.95
	Iodine value	: 65-95
	Saponification value	: 160-205
	Azadirachtin content Minimum	: 150 ppm

2. The Department of Fertilizers have from time to time issued instructions to urea units for ensuring the quality of Neem Oil by procuring it from genuine Neem Oil producers. The above amendment is expected to help in ensuring the objective of the Government. Therefore, all urea manufacturers/importers are hereby directed to strictly adhere to the specifications of Neem Coated Urea and Neem Oil

used for the purpose of production of Neem Coated Urea, as specified in the Fertilizer Control Amendment (Order), 2017 dated 6<sup>th</sup> February, 2017. It may be noted that Department of Fertilizers has already advised DACFW to lift samples of Neem Oil from urea units and submit a report in this regard.

Yours sincerely,

Sachin Kumar,

13.04.2017

(Sachin Kumar)

Section Officer (FPP)

Ph: 23388891

Encl: As above

Copy to:-

- (i) Deputy Secretary (INM),  
Department of Agriculture, Cooperation & Farmers Welfare,  
Krishi Bhawan, New Delhi -110001.
- (ii) Director General,  
Fertilizer Association of India,  
10 Shaheed Jit Singh Marg,  
Qutab Institutional Area,  
New Delhi - 110067

**MINISTRY OF AGRICULTURE AND FARMERS WELFARE**  
(Department of Agriculture, Cooperation and Farmers Welfare)

**ORDER**

New Delhi, the 6th February, 2017

S.O. 349(E).— In exercise of the powers conferred by section 3 of the Essential Commodities Act, 1955 (10 of 1955), the Central Government hereby makes the following Order further to amend the Fertiliser (Control) Order, 1985, namely:—

1. (i) This Order may be called the Fertiliser (Control) Amendment Order, 2017

(ii) It shall come into force on the date of its publication in the Official Gazette.

2. In the Fertiliser (Control) Order, 1985, (hereinafter referred to as said Order), —

(i) in clause (1), after the word "Fertiliser", the brackets and words "(Inorganic, Organic or Mixed)" shall be inserted;

(ii) in clause 2, for sub-clause (h), the following shall be substituted, namely:—

"(h) Fertiliser means any essential substance, either in straight or mixed form and derived from either inorganic, organic or mixed sources, that is used or intended to be used to provide essential plant nutrients or beneficial elements or both for the soil or for the crop or makes essential plant nutrients available to the plants either directly or by biological process or by both in the soil or plant as notified from time to time by Central Government and specified in the schedules appended to this order or as may be notified by the State Governments."

Explanation:- For the purpose of Fertiliser,-

(i) "the essential plant nutrients" include Primary Nutrients (Nitrogen, Phosphorous and Potassium), Secondary Nutrients (Calcium, Magnesium and Sulphur) and Micro Nutrients (Zinc, Manganese, Copper, Iron, Boron and Molybdenum);

(ii) "Beneficial element" means any element as notified by the Central Government from time to time.;

(iii) in Schedule I, for part A and the entries relating thereto, the following entries shall be substituted, namely:-

"Schedule -I

Part A

[See clause 2 (h) and (q)]

**SPECIFICATIONS OF FERTILISERS**

1 (a) Straight Nitrogenous Fertilisers		
<b>1. Ammonium Sulphate</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Ammoniacal nitrogen per cent by weight, minimum	20.5
(iii)	Sulphate Sulphur (as S) per cent by weight, minimum	23.0
(iv)	Free acidity (as H <sub>2</sub> SO <sub>4</sub> ) per cent by weight, maximum (0.04 for material obtained from by-product ammonia and by-project gypsum)	0.025
(v)	Arsenic (as As <sub>2</sub> O <sub>3</sub> ) per cent by weight, maximum	0.01
<b>2. Urea (46% N)</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight, (on dry basis), minimum	46.0
(iii)	Biuret per cent by weight, maximum	1.5
(iv)	Particle size—Minimum 90 per cent of the material shall be retained between 1 mm and 2.8 mm IS sieve	
<b>3. Ammonium Chloride</b>		
(i)	Moisture per cent by weight, maximum	2.0
(ii)	Ammoniacal nitrogen per cent by weight, minimum	25.0

(iii)	Chloride other than ammonium chloride (as NaCl) per cent by weight, maximum basis), maximum	2.0
<b>4. Calcium Ammonium Nitrate (25% N)</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total ammoniacal and nitrate nitrogen per cent by weight, minimum	25.0
(iii)	Ammoniacal nitrogen per cent by weight, minimum	12.5
(iv)	Calcium nitrate per cent by weight, maximum	0.5
(v)	Particle size—Minimum 90 per cent of the material shall be retained between 1 mm and 4 mm IS sieve	
<b>5. Urea Super Granulated</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight (on dry basis), minimum	46.0
(iii)	Biuret per cent by weight, maximum	1.5
(iv)	Particle size—Minimum 80 per cent of the material shall be retained between 13.2 mm and 9.5 mm IS sieve	
<b>6. Urea (Granular)</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight (on dry basis), minimum	46.0
(iii)	Biuret per cent by weight, maximum	1.5
(iv)	Particle size—Minimum 90 per cent of the material shall be retained between 4 mm and 1 mm IS sieve	
<b>7. Urea Ammonium Nitrate (32%N) (liquid)</b>		
(i)	Total nitrogen (Urea, Ammoniacal and Nitrate) per cent by weight, minimum	32.0
(ii)	Urea nitrogen per cent weight, maximum	16.5
(iii)	Ammoniacal nitrogen per cent by weight, minimum	7.5
(iv)	Nitrate nitrogen per cent by weight, minimum	7.5
(v)	Specific gravity (at 15° C)	1.30-1.35
<b>8. Neem Coated Urea</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight, (on dry basis), minimum	46.0
(iii)	Biuret per cent by weight, maximum	1.5
(iv)	Neem oil content soluble in Benzene, per cent by weight, minimum	0.035
	Particle size—Minimum 90 per cent of the material shall be retained between 1 mm and 2.8 mm IS sieve	
<b>Foot Note.- the Neem oil used for the manufacturing of Neem Coated Urea may be of the following specifications</b>		
	Moisture and insoluble matter per cent by wt. Max.	1.0
	Specific gravity at 30°C.	85-95
	Iodine value	65-95
	Saponification value	160-205
	Azadirachtin content Minimum	150 ppm.
<b>9. Urea Briquettes</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight (on dry basis), minimum	46.0
(iii)	Biuret per cent by weight, maximum	1.5
(iv)	Particle size — Minimum 90 per cent of the material shall be retained between 5.7 mm and 3.8 mm IS sieve	
<b>10. Sulphur Coated Urea</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total nitrogen per cent by weight (on dry basis), minimum	37.0
(iii)	Elemental Sulphur (as S) per cent by weight, minimum	17.0
(iv)	Biuret per cent by weight, maximum	1.5

(v)	Particle size — Minimum 90 per cent of the material shall be retained between 8 mm and 2 mm IS sieve	
<b>11. Neem Coated Urea (Granular)</b>		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight, (on dry basis), minimum	46.0
(iii)	Biuret per cent by weight, maximum	1.5
(iv)	Neem oil content soluble in Benzene, per cent by weight, minimum	0.035
(v)	Particle size—Minimum 90 per cent of the material shall be retained between 2 mm and 4 mm IS sieve	
<b>1(b). STRAIGHT PHOSPHOROUS FERTILISERS</b>		
<b>1. Single Superphosphate (16% P<sub>2</sub>O<sub>5</sub> Powdered)</b>		
(i)	Moisture per cent by weight, maximum	12.0
(ii)	Available phosphorous (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	16.0
(iii)	Water soluble phosphorous(as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	14.5
(iv)	Sulphate Sulphur (as S) per cent by weight, minimum	11.0
(v)	Free phosphoric acid (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, maximum	4.0
<b>2. Triple Superphosphate</b>		
(i)	Moisture per cent by weight, maximum	12.0
(ii)	Total phosphorus (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	46.0
(iii)	Water soluble phosphorus (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	42.5
(iv)	Free phosphoric acid (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, maximum	3.0
<b>3. Rock Phosphate</b>		
(i)	Total phosphorous (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	18.0
(ii)	Particle size – Minimum 90 per cent of the material shall pass through 0.15 mm IS sieve and the balance 10 per cent of material shall pass through 0.25 mm IS sieve.	
<b>4. Single Superphosphate (16% P<sub>2</sub>O<sub>5</sub> Granulated)</b>		
(i)	Moisture per cent by weight, maximum	5.0
(ii)	Available phosphorous (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	16.0
(iii)	Water soluble phosphorous(as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	14.5
(iv)	Sulphate Sulphur (as S) per cent by weight, minimum	11.0
(v)	Free phosphoric acid (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, maximum	4.0
(vi)	Particle size—Minimum 90 per cent of the material shall be retained between 1 mm and 4 mm IS sieve	
<b>5. Superphosphoric Acid (70% P<sub>2</sub>O<sub>5</sub> (Liquid))</b>		
(i)	Total phosphorous (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	70.0
(ii)	Polyphosphate (as P <sub>2</sub> O <sub>5</sub> ) per cent by weight, minimum	19.0
(iii)	Methanol insoluble matter, per cent weight, maximum	1.0
(iv)	Magnesium as MgO, percent by weight, maximum	0.5
(v)	Specific gravity (at 24°C)	1.95-2.00
<b>1(c). STRAIGHT POTASSIUM FERTILISERS</b>		
<b>1. Potassium Chloride (Muriate of Potash)</b>		
(i)	Moisture per cent by weight, maximum	0.5
(ii)	Water soluble potassium content (as K <sub>2</sub> O) per cent by weight, minimum	60.0