

Fertilizers - Movement and Quality Control

FERTILIZERS

Fertilizer Plan and Supplies:

35.31 LMT of fertilizers consumed against the plan of 38.11 LMT during the year 2016-17. The Consumption was reduced to a quantity of 24kg(5.1%) per Ha compared with 2015-16 (consumption per Ha during 2015-16= 476.4 kg and during 2016-17= 451.96kg).

The fertilizer requirement planned for the year 2017-18 is 35.56 LMT of fertilizers (16.85 LMT for Kharif 2017 + 18.71 LMT for Rabi 2017-18).

Strategies to Reduce Consumption: Chemical fertilizers will give Philip to increase yields but due to sole use of Chemical fertilizers without organic/ bio fertilizers, soils become unproductive/less remunerative. To correct this problem Department of Agriculture is planning/implement different strategies to reduce/minimize the chemical fertilizer to achieve optimum yields for the unit of fertilizer applied.



- ★ Sensitizing Farmers on Soil Test Based Fertilizer application.
- ★ 100% Neem Coated Urea Supply to the Farmers – This is implemented.
- ★ Special focus on promoting Green manure crops.
- ★ Sensitize farmers about use of customized fertilizers which are crop specific, Crop stage specific & Location specific. So that efficient/optimum availability of plant nutrients to the crops. This reduces fertilizer usage/plug excess usage.
- ★ Encouraging farmers to adopt ‘Zero based Natural Farming’.
- ★ Encouraging farmers to correct Micronutrient deficiencies and use of Soil amendments for correction of soil salinity and Alkalinity or Acidity.
- ★ Encourage farmers go for ‘Fertigation in Micro Irrigation method of watering’.

Buffer maintenance by AP Markfed

During the year 2016-17, AP MARKFED as Nodal Agency was directed to maintain 2.00 LMT (1.50 LMT urea + 0.25 LMT DAP + 0.25 LMT complexes) of fertilizer buffers in the state vide G.O .No 364, Dt.19.05.2016. Government has created a sub-head under the scheme “storage, interest and other related costs of fertilizer buffers” and allocated Rs.6450 lakhs and an amount of Rs.4225 Lakhs was utilized for the said purpose.

In the year 2017-18, budget estimate for the scheme is Rs.500 lakhs temporarily towards incidental charges such as insurance, handling, storage and transportation etc for 2.00 LMT of fertilizer buffers.

NUTRIENT BASED SUBSIDY POLICY (NBS Policy)

Department of Fertilizers (DoF), Government of India communicated the New Nutrient Based Subsidy Policy effective from 1.4.2010 and continued in the year 2017-18 also.

Salient features of NBS Policy :

- ❖ **Products covered:** The NBS is applicable to DAP, MOP, MAP, TSP, 15 grades of Complex fertilizers, Ammonium Sulphate (of GSFC & FACT) and SSP.
- ❖ **Subsidy Applicable:** The primary nutrients of N,P,K and Sulphur (S) are eligible for subsidy. (The per Kg subsidy N- Rs.15.854/-., P-Rs.13.241/-, K-Rs.15.470/-, S- Rs.2.044/- for the year 2016-17 and Subsidy for the year 2017-18 is yet to be announced)
- ❖ **Additional per Tonne subsidy is given** for fertilizers carrying other secondary and micro nutrients. This is to encourage balanced use of fertilizers. The per MT additional subsidy on Boron is Rs.300/- & for Zinc Rs.500/-.
- ❖ The Department of Fertilizers (DoF) fixes the subsidy of fertilizers and the companies will decide the MRPs.
- ❖ **Printing on the Bags:** The fertilizer companies are required to print the Maximum Retail Prices (MRP) along with the applicable subsidy on the fertilizer bags clearly. Any sale above the printed MRP will be punishable under EC Act.
- ❖ All the Fertilizer Inspectors will ensure compliance of the above item.
- ❖ The distribution and movement of fertilizers along with import of finished fertilizers, fertilizer inputs and production by indigenous units will continue to be monitored through the online web based “Fertilizer Monitoring System (FMS)/mobile FMS”.

SUPPLY PLAN OF FERTILIZERS :

The product-wise monthly allocations to the States i.e. supply plans will be decided and communicated to the States by the Department of Fertilizers (DoF), GoI and in turn to the districts from the head Office.

The district-wise, month-wise and nutrient wise fertilizer requirement for Kharif 2017 and Rabi 2017-18 are given in the **Annexure I**.

Mobile based Fertilizer Monitoring System (mFMS)

- Government of India has decided to implement an mFMS (Mobile based Fertilizer Monitoring System) to track the movement and information availability & visibility across whole Supply Chain.
- The Department of Fertilizer, Govt of India is implementing the project and National Informatics Centre (NIC), Ministry of Communication & Information Technology, Government of India is the technology partner.

OBJECTIVE OF THE PROJECT :

- ▷ The objective of the mFMS (Mobile Based Fertilizer Management System) is to monitor the movement of the fertilizer from the company to Warehouse, Wholesalers and from Wholesalers to Retailers.
- ▷ The proposed system will help in monitoring the movement of Fertilizer’s consignments and its stock position at various warehouses, wholesalers, and retailers.
- ▷ The system will also act as a tool for Government Bodies to track and ensure the timely distribution of fertilizers to the farmers.

It is proposed to be done in Three Phases

Phase 1 : Information visibility till the retailer

The objective of this phase is to create information visibility of the movement of fertilizer along the supply chain from the manufacturer till the retailer.

Phase 2 : Subsidy payment to Manufacturer

It is envisaged that the subsidy will be released to the retailer when he receives the fertilizer.

Phase 3 : Subsidy payment to farmers

In the Interim stage, it is envisaged that the subsidy will be released to the farmer in the long run, once the coverage of Aadhaar is extensive throughout the country.

It is proposed to be done in two phases:

- a. Information flow on sales to individual farmers
- b. Transfer of subsidy to farmers.

DBT(Direct Benefit Transfer) :

The Department of Fertilizers, Govt. of India will *release 100% Subsidy* on various fertilizer grades *to the manufacturers based on the Net receipts to the districts till now. Modified DBT* was evolved in which the subsidy payments will be made to the manufacturers based on the *actual sales to the farmers by the dealers* not the net receipts.

Initially, the modified DBT (AeFDS) subsidy procedure was introduced on pilot basis in Krishna & West Godavari districts of Andhra Pradesh from Rabi 2016-17. In the second phase the Modified DBT (AeFDS) will be implemented in all the Districts of A.P. from 1.07.2017 in Andhra Pradesh.

Aadhar enabled Fertilizer Distribution System (AeFDS) is started on pilot basis in Krishna and West Godavari districts. Following are the details of DBT as on 22.05.2017.



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S.No	District	Go Live Date	Total Retailers	Retailer using PoS	Total No.of Transactions	Total Qty Sold in MTs
1.	Krishna	1 st Oct'2016	981	981	241041	96555.049
2.	West Godavari	1 st Oct'2016	1111	1111	479646	208109.187

Action Plan for the year 2017-18

Fertilizer was declared as Essential Commodity and is a critical input in crop production. The Fertilizer Control Order, 1985 and Fertilizer Movement Control Order, 1973 regulates the quality and movement aspects of the fertilizers, to ensure supply of quality fertilizers to the farming community.

The department is taking following necessary steps to ensure the supply of quality fertilizers to the farmers.

- ★ An annual target of **9725 fertilizer samples**, proposed to be drawn during 2017-18, will be communicated to the districts. The district-wise, month-wise and product-wise targets are annexed herewith in **Annexure-II**.
- ★ The district JDAs are requested to instruct the concerned Fertilizer Inspectors to adhere strictly to the product-wise targets communicated without any deviation. Top Priority should be given to drawl of as many fertilizer samples of NPK mixtures, 100% WS complexes, SSP etc, as possible to ensure that quality fertilizers are supplied to the farmers.
- ★ There are three labs in the State located at Bapatla (Guntur), Ananthapur and Tadepalligudem (West Godavari) with an annual analyzing capacity of @ 3500 fertilizer samples per lab and 3 more labs are proposed to be established at Ongole, Nellore(Bio & Organic Fertilizers) and Amaravathi .These labs analyse the fertilizer samples received from all over the state to ensure quality of fertilizers supplied to the farmers.
- ★ Pre-season inspections duly forming internal squads for 100% verification of all the licensed fertilizer dealers to ensure that the dealers are complying with the provisions of FCO, 1985 will be taken up by the district JDAs. And also instructed to take stringent action against erring dealers such as cancellation of licences, as per applicable provisions of FCO, 1985.
- ★ Vigilant monitoring at vulnerable check posts especially in border districts to check the inter-transport movement of fertilizers in coordination with revenue and police department.

Annexure - I

District wise / Month wise Fertiliser requirement during Kharif 2017

(Qty in MTs)

S. No	DISTRICT	April-17			May-17			June-17			July-17						
		N	P	K	Total	N	P	K	Total	N	P	K	Total				
1	Srikakulam	839	302	314	1455	1985	700	648	3333	4024	1538	996	6558	5631	1980	1021	8631
2	Vizianagaram	481	210	134	825	648	350	204	1202	2893	1022	648	4563	4873	2660	972	8505
3	Visakhapatnam	746	157	125	1028	1305	319	145	1769	1352	356	202	1910	3021	510	397	3928
4	East Godavari	1605	934	852	3391	4701	2142	1386	8228	8622	3652	2414	14688	12226	4937	3161	20323
5	West Godavari	4083	1604	1369	7055	5118	1866	1693	8677	8497	3318	3081	14895	12752	4894	4759	22405
6	Krishna	3065	1340	625	5030	4594	2328	1091	8013	7085	3310	1537	11932	13571	6447	2550	22568
7	Guntur	2180	988	216	3384	5105	2510	721	8336	14189	6096	1559	21845	22358	10440	3040	35838
8	Prakasam	2067	1404	125	3596	2739	1872	229	4839	4861	3117	340	8318	5669	3518	541	9728
9	Nellore	3257	1544	663	5464	4919	1992	1143	8054	4871	1690	903	7464	2557	1000	836	4393
10	Kurnool	5460	3094	866	9420	8615	5254	1623	15492	11521	6700	2356	20577	13477	7886	2560	23923
11	Anantapur	2270	876	454	3600	4193	1923	872	6989	4950	2268	1050	8268	7482	3672	1491	12644
12	Kadapa	1615	1022	449	3086	2931	1638	539	5108	4066	1918	592	6575	4635	2650	719	8004
13	Chittoor	1156	450	216	1822	2623	580	173	3376	3683	1566	641	5891	4583	1665	523	6770
	Total	28822	13925	6410	49157	49475	23474	10466	83415	80614	36552	16321	133486	112834	52258	22570	187662

S. No	DISTRICT	August-17			September-17			Kharif 17 Total					
		N	P	K	Total	N	P	K	Total	N	P	K	Total
1	Srikakulam	6463	2680	1369	10511	6901	2653	1663	11217	25842	9853	6012	41706
2	Vizianagaram	5675	2157	1610	9442	7509	988	2206	10703	22077	7387	5775	35240
3	Visakhapatnam	4137	815	642	5594	3955	746	757	5458	14518	2902	2267	19687
4	East Godavari	11131	4064	2496	17691	5398	1030	763	7191	43681	16759	11072	71513
5	West Godavari	11764	4172	3458	19393	8912	3386	2810	15107	51124	19240	17169	87533
6	Krishna	16330	7180	2848	26358	18291	7180	2968	28438	62936	27785	11618	102339
7	Guntur	13735	6910	1623	22268	7467	3220	697	11384	65034	30164	7857	103056
8	Prakasam	6720	4790	806	12316	6813	4140	1262	12214	28868	18841	3302	51011
9	Nellore	2116	1100	416	3632	3693	1422	845	5960	21413	8748	4805	34966
10	Kurnool	19005	11898	3642	34546	18700	10685	3378	32763	76778	45517	14425	136721
11	Anantapur	5506	2418	1250	9173	4047	1968	772	6786	28446	13125	5889	47461
12	Kadapa	3734	2014	500	6248	4077	1855	502	6434	21057	11097	3301	35455
13	Chittoor	4288	1608	678	6574	2192	812	375	3379	18525	6681	2606	27812
	Total	110603	51806	21336	183745	97952	40085	18997	157034	480300	218100	96100	794500

Annexure - II

District wise / Month wise Fertiliser requirement during Kharif 2017
(Qty in MTs)

S. No	DISTRICT	October-17			November-17			December-17			January-18					
		N	P	Total	N	P	Total	N	P	Total	N	P	Total			
1	Srikakulam	4342	62	4924	1888	520	2549	731	341	1215	1049	455	1688			
2	Vizianagaram	2820	108	3616	1958	704	2922	1267	519	1963	1463	305	1998			
3	Visakhapatnam	1727	285	2331	715	305	1099	725	153	929	681	163	899			
4	East Godavari	6268	1899	9842	5940	2835	1004	14655	6111	1775	22541	13094	3657	21371		
5	West Godavari	7731	7353	17878	13741	8332	3517	15948	9131	28985	25980	9270	3126	38376		
6	Krishna	8192	2459	13712	4207	3460	948	8615	3853	2251	786	6890	1167	10430		
7	Guntur	16577	6450	24888	10732	5594	1419	17746	7268	4997	1035	13299	5612	19105		
8	Prakasam	8336	5308	14731	7749	6118	1875	15742	6501	2846	836	10182	2774	509	8587	
9	Nellore	4734	2356	480	7237	4959	866	13061	28441	10462	3388	42290	22614	3585	32425	
10	Kurnool	13095	7787	2733	5706	3142	1638	10486	5004	2865	1452	9320	4975	3498	9455	
11	Anantapur	5120	3147	816	9083	3813	2684	7431	2502	1695	699	4896	2847	1414	915	5176
12	Kadapa	5905	2709	1225	9839	4182	2357	841	7379	2977	1704	699	4352	1700	619	6671
13	Chittoor	2194	780	231	3205	3038	503	5517	6721	2945	1331	10997	7374	1421	673	9468
Total:		87041	40704	17491	70908	42986	14023	127916	96593	46020	16276	158889	108617	40366	16666	165649

S. No	DISTRICT	February-18			March-18			Total Rabi - 2017-18				
		N	P	Total	N	P	Total	N	P	Total		
1	Srikakulam	1561	1215	134	1997	1757	81	3835	11568	4349	1205	17122
2	Vizianagaram	2196	1187	191	1802	994	110	2906	11506	3818	1657	16981
3	Visakhapatnam	1224	536	50	1514	203	21	1738	6586	1646	573	8806
4	East Godavari	9473	3986	1471	6737	3938	721	11396	56167	23391	10301	89859
5	West Godavari	11402	5171	2921	10928	4539	1219	16685	85730	43796	17482	147007
6	Krishna	6402	4127	1563	9692	5373	1938	17003	38701	20577	9463	68742
7	Guntur	10478	7074	1049	7629	5198	901	13728	65214	34924	7228	107367
8	Prakasam	4133	3462	656	5833	2881	441	9156	37856	23389	5404	66649
9	Nellore	10274	3741	4022	10131	3808	1410	15350	83430	31552	13751	128733
10	Kurnool	6802	8158	1770	10827	7617	1377	19821	46409	33068	9951	89427
11	Anantapur	4055	3314	905	4617	2121	405	7143	22954	14375	4674	42003
12	Kadapa	4818	1216	479	6379	2388	878	9645	28614	12074	4740	45427
13	Chittoor	5914	2059	621	8594	2188	617	9467	31904	11368	3976	47248
Total:		78731	45246	15832	84750	43004	10119	137874	526640	258326	90407	875373

Annexure - III

District wise / Month wise Nutrient Requirement during 2017-18 (LMT)

S. No	DISTRICT	kharif 2017				Rabi 2017-18				Total 2017-18			
		N	P	K	Total	N	P	K	Total	N	P	K	Total
1	Srikakulam	25842	9853	6012	41706	11568	4349	1205	17122	37409	14202	7217	58828
2	Vizianagaram	22077	7387	5775	35240	11506	3818	1657	16981	33584	11205	7432	52221
3	Visakhapatnam	14518	2902	2267	19687	6586	1646	573	8806	21104	4548	2841	28493
4	East Godavari	43681	16759	11072	71513	56167	23391	10301	89859	99848	40150	21374	161372
5	West Godavari	51124	19240	17169	87533	85730	43796	17482	147007	136854	63036	34651	234540
6	Krishna	62936	27785	11618	102339	38701	20577	9463	68742	101637	48362	21082	171081
7	Guntur	65034	30164	7857	103056	65214	34924	7228	107367	130249	65088	15085	210423
8	Prakasam	28868	18841	3302	51011	37856	23389	5404	66649	66724	42229	8707	117660
9	Nellore	21413	8748	4805	34966	83430	31552	13751	128733	104843	40300	18556	163700
10	Kurnool	76778	45517	14425	136721	46409	33068	9951	89427	123187	78585	24376	226148
11	Anantapur	28446	13125	5889	47461	22954	14375	4674	42003	51401	27501	10563	89464
12	Kadapa	21057	11097	3301	35455	28614	12074	4740	45427	49671	23171	8041	80883
13	Chittoor	18525	6681	2606	27812	31904	11368	3976	47248	50430	18048	6582	75060
	Total	480300	218100	96100	794500	526640	258326	90407	875373	1006940	476426	186507	1669873

Annexure - IV

Statement showing Month-wise, district-wise Fertilizer sample targets for the year 2017-18

S. No	Districts	April	May	June	July	August	September	October	November	December	January	February	March	Total
1	Srikakulam	5	10	15	30	40	30	30	13	8	8	5	13	207
2	Vizianagaram	3	5	20	30	40	40	10	22	10	13	12	10	215
3	Vishakapatnam	15	25	45	40	45	45	28	22	15	10	10	5	305
4	East Godavari	20	15	52	75	120	100	55	87	95	110	92	46	867
5	West Godavari	25	45	120	140	180	155	170	167	170	200	100	50	1522
6	Krishna	25	40	95	115	180	160	95	100	140	120	100	80	1250
7	Guntur	20	20	70	92	220	245	235	137	125	135	100	52	1451
8	Prakasam	10	15	34	20	88	110	145	80	76	55	60	31	724
9	Nellore	15	30	30	30	30	50	75	107	170	105	50	15	707
10	Kurnool	10	20	110	108	150	200	160	97	68	80	72	35	1110
11	Ananthapur	20	25	55	70	60	90	70	62	30	20	30	18	550
12	Cuddapah	10	20	55	60	60	75	90	56	24	21	23	10	504
13	Chittoor	15	15	20	20	30	30	55	52	36	15	15	10	313
	Total	193	285	721	830	1243	1330	1218	1002	967	892	669	375	9725