

**SUBJECT: PIGEONPEA (ARHAR/TUR) - TECHNICAL NOTE ON PREVAILING LOWER MARKET PRICES DURING 2016-17.**

**1. Introduction**

Pigeonpea, a kharif season crop, is also commonly known as *Red gram, Arhar or Tur*. It is the II<sup>nd</sup> important pulse crop after the gram and a major kharif crop in the country. India ranks I<sup>st</sup> in area and production in the world with 80% and 67% of world's acreage and production respectively.

**2. Production Scenario**

During 2016-17, the country recorded ever highest production of Tur to the tune of 45.99 lakh tons (*3<sup>rd</sup> Adv. Estimates*), which is >58% of the Normal and 87% higher than the last year.

- Sowing period of the crop is between I<sup>st</sup> fortnight of June to II<sup>nd</sup> fortnight of July. Accordingly, the harvesting starts after 120-190 days of the sowing, the normal maturity durations of the different cultivar (short/medium/long). Highest production of Pigeonpea is from *Maharashtra which is around 30% of National Production*.

**Table I. National Production of Pigeonpea**

**(Production: Lakh tonnes)**

Crop/Year 1 <sup>st</sup> July to 30 <sup>th</sup> June	Normal (Avg. 2010-11 to 2014-15)	2015-16	2016-17	Change Over	
		Final Estimate	Third Advance Estimate	Normal	2015-16
Pigeonpea (Tur/Arhar)	29.04	24.58	45.99	16.95 (58%)	21.41 (87%)

Source: DES (DAC&FW)

- More than 90% of production contribution of Tur is from 8 states, namely, Maharashtra, Karnataka, Madhya Pradesh, Uttar Pradesh, Gujarat, Jharkhand, Telangana and Andhra Pradesh. During 2016-17, the country recorded the ever highest production of this crop (*3<sup>rd</sup> Adv. Estimates*). The state-wise trend of Area and Production is given in **Table II**.

**Table II. State-wise Area and Production of Pigeonpea**

*(Area: lakh ha, Production -lakh tonnes)*

State	Normal		2013-14		2014-15		2015-16**		2016-17*	
	Area	Prod.	Area	Prod.	Area	Prod.	Area	Prod.	Area	Prod.
Maharashtra	12.13	9.15	11.41	10.34	12.10	7.26	10.39	4.66	15.33	13.89
Karnataka	7.74	4.62	8.24	5.88	7.28	4.74	6.48	2.63	12.14	8.66
Madhya Pradesh	5.07	3.39	4.64	3.32	5.21	5.11	5.79	6.25	6.90	7.82
Gujarat	2.35	2.49	2.10	2.09	2.14	2.35	2.27	2.37	3.34	3.69
Uttar Pradesh	3.13	2.83	3.01	2.71	2.87	1.74	2.65	1.83	3.38	3.36
Telangana	2.80	1.29	2.64	1.40	2.20	1.09	2.48	1.04	3.87	2.15
Jharkhand	1.61	1.56	1.97	2.05	1.96	1.99	1.94	1.74	1.94	2.02
A.P.	2.04	0.89	1.85	1.04	1.51	0.76	2.20	1.29	3.48	1.31
Odisha	1.39	1.23	1.39	1.24	1.38	1.24	1.38	1.23	1.36	1.15
Chhattisgarh	0.53	0.29	0.51	0.31	0.53	0.34	0.64	0.30	0.69	0.46
Tamil Nadu	0.49	0.44	0.60	0.58	0.72	0.77	0.60	0.58	0.59	0.44
Bihar	0.22	0.36	0.22	0.37	0.20	0.29	0.22	0.32	0.22	0.34
<b>Total Above</b>	<b>39.50</b>	<b>28.54</b>	<b>38.58</b>	<b>31.33</b>	<b>38.10</b>	<b>27.68</b>	<b>37.04</b>	<b>24.24</b>	<b>53.24</b>	<b>45.29</b>
<b>All-India</b>	<b>40.05</b>	<b>29.04</b>	<b>39.04</b>	<b>31.74</b>	<b>38.54</b>	<b>28.07</b>	<b>37.46</b>	<b>24.58</b>	<b>53.87</b>	<b>45.99</b>

Source: Normal: DES, (Ave. 2010-11 to -2014-15); 2016-17\*- III<sup>rd</sup> Advance Estimates of Production; 2015-16\*\*- IV<sup>th</sup> Advance Estimates

### 3. Availability Scenario

During 2016-17, the overall availability of this commodity, comprising the production and import, has been recorded as ever highest in the country. The trend of **Domestic Production, Import, Export and Total Availability** between 2013-14 to 2016-17 is given in **Table III**.

**Table III. Import, Export and Availability of Pigeonpea**

(Unit: Lakh Tons)

Year	Domestic Production	Import	Export	Total Availability
1	2	3	4	5= (2+3-4)
2013-14	31.74	4.63	0.04	36.33
2014-15	28.07	5.74	0.09	33.72
2015-16	24.58	4.66	0.001	29.24
2016-17*	45.99	5.75	0.01	51.73

Source: GOI, MoA & FW, Min. of Commerce & Industry; \* Domestic production 3<sup>rd</sup> Adv. Est. ; Import & Export 2016-17 (Apr. 2016-Feb. 2017)

### 4. Market Arrivals & Price Trend

The state-wise mandi arrivals of pigeonpea during 2013-14 to 2016-17 exhibit that the mandi arrivals during 2016-17 crop season at 165%, 3% and 57% are higher as compared to the corresponding periods of preceding years viz., 2013-14, 2014-15 & 2015-16 respectively. The details are given under **Table IV**.

**Table IV. Mandi arrivals of Pigeonpea (2013-14 to 2016-17)**

(Unit- Arrivals in Lakh Tonnes)

State	July01,2013 to June,30,2014	July01,2014 to June,30,2015	July01,2015 to June,30,2016	July01,2016 to June,9,2017	% Change over		
					2013-14	2014-15	2015-16
A. P.	0.000	0.000	0.010	0.061			496
Assam	0.014	0.066	0.110	0.073	417	10	-34
Bihar	0.000	0.001	0.001	0.000	-100	-100	-100
Chattisgarh	0.077	0.061	0.088	0.082	6	33	-7
Gujarat	0.429	0.305	0.390	0.992	131	225	154
Haryana	0.000	0.000	0.001	0.002	692	819	25
Jharkhand	0.044	0.247	0.039	0.047	6	-81	21
Karnataka	3.147	10.384	1.972	3.968	26	-62	101
M. P.	0.544	1.596	1.745	2.431	346	52	39
Maharashtra	1.131	2.859	5.354	7.527	566	163	41
NCT of Delhi	0.005	0.004	0.008	0.008	66	102	4
Odisha	0.031	0.004	0.002	0.000	-100	-99	-98
Punjab	0.000	0.000	0.044	0.009	108076		-79
Rajasthan	0.044	0.100	0.147	0.223	408	124	51
U. P.	1.042	1.116	0.874	0.742	-29	-34	-15
Uttarakhand	0.030	0.010	0.011	0.026	-13	168	132
West Bengal	0.010	0.018	0.187	0.147	1362	727	-21
Manipur	0.000	0.008	0.014	0.012		64	-10
Tamil Nadu	0.000	0.000	0.012	0.001			-94
Telangana	0.000	0.000	0.058	1.007			1639
<b>Total</b>	<b>6.548</b>	<b>16.787</b>	<b>11.073</b>	<b>17.370</b>	<b>165</b>	<b>3</b>	<b>57</b>
<b>Avg. Prices</b>	<b>4866</b>	<b>5593</b>	<b>9079</b>	<b>7177</b>	<b>47</b>	<b>28</b>	<b>-21</b>

Source: AGMARKNET

**Table V. Market Arrivals & Prices of Pigeonpea (2014-2017: May & June)**

(May, 01<sup>st</sup>- 31<sup>st</sup>)

State	Market Rates (Rs/qttl)				Market Arrivals (Lakh tons)			
	2014	2015	2016	2017	2014	2015	2016	2017
<b>MSP</b>	<b>4300</b>	<b>4350</b>	<b>4625</b>	<b>5050</b>				
Madhya Pradesh	3671	5742	5781	4181	0.080	0.112	0.162	0.295
Maharashtra	4244	6786	8897	4283	0.171	0.214	0.535	0.980
Rajasthan	3471	1841	4948	4921	0.017	0.007	0.016	0.060
Karnataka	4168	7008	9723	4291	0.209	0.084	0.175	0.308
Andhra Pradesh			6768	4803	0.000	0.000	0.002	0.013
Chattisgarh	4226	5772	5661	4356	0.006	0.004	0.015	0.013
Uttar Pradesh	4427	6563	9063	4301	0.074	0.085	0.068	0.078
Jharkhand	6505	8590	12441	7116	0.004	0.009	0.002	0.003
Gujarat	3797	6319	8008	3569	0.064	0.013	0.031	0.130
Telangana			8731	3891	0.000	0.000	0.011	0.024
West Bengal	6465		13020	8912	0.001	0.000	0.027	0.013
Orissa	6446	8333	6000		0.004	0.000	0.000	0.000
<b>All-India</b>	<b>4896</b>	<b>7004</b>	<b>9443</b>	<b>5528</b>	<b>0.634</b>	<b>0.535</b>	<b>1.059</b>	<b>1.929</b>

Source: AGMARKNET

(June, 01<sup>st</sup>- 31<sup>st</sup>)

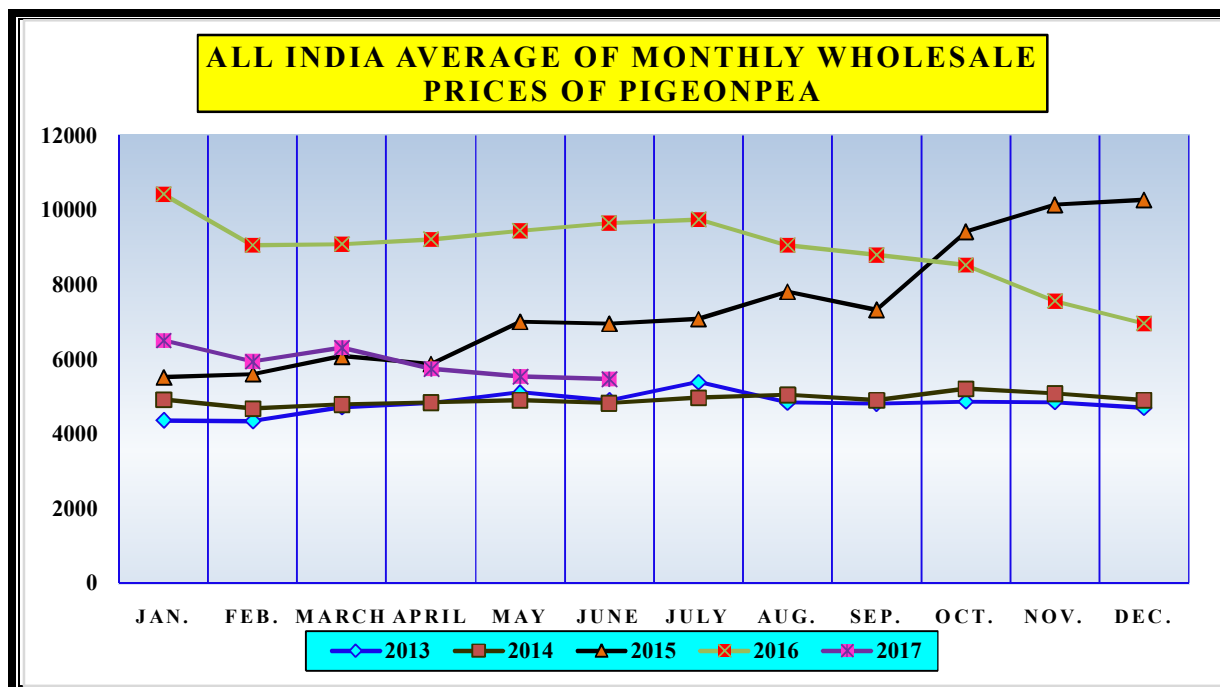
State	Market Rates (Rs/qttl)				Market Arrivals (Lakh tons)			
	2014	2015	2016	2017*	2014	2015	2016	2017*
<b>MSP</b>	<b>4300</b>	<b>4350</b>	<b>4625</b>	<b>5050</b>				
Madhya Pradesh	3380	5503	7215	3314	0.036	0.061	0.040	0.020
Maharashtra	4153	6948	8794	4313	0.108	0.080	0.191	0.029
Rajasthan	3337	1570	6079	4527	0.006	0.010	0.011	0.009
Karnataka	4125	7041	9901	4330	0.177	0.090	0.229	0.063
Andhra Pradesh	-	-	7237	3451	0.000	0.000	0.001	0.001
Chattisgarh	4052	6604	7807	3964	0.006	0.002	0.004	0.002
Uttar Pradesh	4445	7014	8687	4415	0.088	0.065	0.062	0.024
Jharkhand	6364	8751	12472	7220	0.004	0.006	0.002	0.001
Gujarat	3710	6481	7946	3351	0.024	0.011	0.019	0.019
Telangana	-	-	8587	3619	-	-	0.014	0.004
West Bengal	6406	10000	12968	8553	0.001	0.004	0.026	0.005
Orissa	6694	9000	-	-	0.002	0.000	-	-
<b>All-India</b>	<b>4825</b>	<b>6952</b>	<b>9657</b>	<b>5484</b>	<b>0.464</b>	<b>0.440</b>	<b>0.940</b>	<b>0.319</b>

Source: AGMARKNET \* up to 9<sup>th</sup> June, 2017

- The all India market arrival of pigeonpea during May, 2016 was 1.059 lakh tons which was about 4.31 % of the total production during 2015-16 crop season whereas during May, 2017 it is 1.93 lakh tons *i.e.* about 4.19 % of total production during 2016-17 which is marginally less at 0.12% than the last year. However, market arrivals are higher in all major pulse producing states in comparison to the last year.
- The market arrival during May, 2014 was 0.63 lakh tons which is only 1.98 % of the total pigeonpea production during 2013-14.
- The market arrivals during June, 1-9<sup>th</sup>, 2017 are 0.319 lakh tons.

**Table VI. Average Monthly Wholesale Price Trend of Pigeonpea : All India**

Year	(Rs/qtl.)													% Change over
	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Avg	
2013	4364	4350	4714	4836	5112	4895	5387	4837	4808	4868	4852	4695	4810	23
2014	4925	4676	4789	4836	4896	4825	4961	5042	4909	5208	5075	4904	4921	20
2015	5513	5602	6070	5874	7004	6952	7077	7812	7326	9419	10138	10273	7422	-20
2016	10426	9056	9096	9224	9443	9657	9749	9052	8792	8532	7563	6962	8963	-34
2017	6499	5938	6305	5733	5528	5465	-	--	--	-	--	--	5911	



Source: AGMARKNET

The trend of monthly wholesale prices of pigeonpea during last five years exhibit that the market rates are directly related with the production/availability of commodity, the decreasing trend of prices during the current year 2017 is due to record availability of Tur owing to production and import during 2016-17. The increasing price trend during the corresponding period of 2016 may be attributed to less production/availability during 2015-16. During the current year wholesale prices during the month of January to June, 2017 show decreasing trend due to increasing trend of market arrivals with 57% higher than the last year in the same period. During the current year (Jan. to Dec.) and (July to June) less market prices is about 34% & 21% respectively than the last year of the same period. The details are enumerated in Table IV & VI.

**Table -VII. Weekly wholesale price of Pigeonpea for the month of May & June**

(Unit: Rs/Qtl)

State	Wholesale Prices				% Change over		
	May ,24-31, 2017	May, 16-23, 2017	May,09-15, 2017	May, 24-31,2016	May, 16-23, 2017	May,09-15, 2017	May, 24-31,2016
Andhra Pradesh	3413	5001	4939	7800	-31.77	-30.9	-56.25
Assam	6987	7142	7189	12845	-2.17	-2.81	-45.6
Chattisgarh	4626	4365	4072	5108	5.98	13.6	-9.44
Gujarat	3579	3613	3596	7963	-0.95	-0.47	-55.06
Jharkhand	7239	6970	7089	12854	3.85	2.11	-43.69
Karnataka	4065	4358	4450	9884	-6.73	-8.65	-58.87
Kerala	7876	8319	8306	14491	-5.33	-5.18	-45.65
Madhya Pradesh	3979	4206	4404	6053	-5.39	-9.64	-34.26
Maharashtra	4375	4261	4222	8779	2.67	3.61	-50.17
Manipur	12204	11676	12020	16512	4.53	1.54	-26.09
NCT of Delhi	2844	2907	2749	5958	-2.15	3.48	-52.26
Rajasthan	4794	5018	5012	5759	-4.46	-4.34	-16.76
Telangana	3721	3947	3967	8555	-5.74	-6.2	-56.51
Uttar Pradesh	4093	4374	4415	8806	-6.42	-7.28	-53.52
Uttrakhand	6224			9800	—	—	-36.49
West Bengal	8775	8834	9015	13004	-0.67	-2.66	-32.52
<b>Average</b>	<b>5396</b>	<b>5666</b>	<b>5696</b>	<b>9636</b>	<b>-4.77</b>	<b>-5.27</b>	<b>-44.00</b>

Source: AGMARKNET-APMCs Data

(June,9<sup>th</sup> -15<sup>th</sup>)

State	Whole sale prices				% Change over		
	June, 9-15, 2017*	June, 9-15, 2016	June, 9-15, 2015	June, 9-15, 2014	2016	2015	2014
A. P.	3258	7452			-56		
Assam	6831	12420		6836	-45		0
Chattisgarh	3831	7863	7043	4000	-51	-46	-4
Gujarat	3356	7867	6402	3774	-57	-48	-11
Jharkhand	7000	12361	8484	6327	-43	-17	11
Karnataka	4442	10200	7103	4098	-56	-37	8
Kerala	7851	14019			-44		
M.P.	4012	7562	5655	3276	-47	-29	22
Maharashtra	3943	9016	6926	4103	-56	-43	-4
Manipur	13224	16508	11471		-20	15	
NCT of Delhi	2660		4845			-45	
Rajasthan	4712	6402	1490	3280	-26	216	44
Telangana	3678	8665			-58		
U. P.	4097	8751	7086	4378	-53	-42	-6
Uttrakhand		9000	6610	6368	-100	-100	-100
West Bengal	8520	13120	10000	6400	-35	-15	33
<b>Average</b>	<b>5428</b>	<b>10080</b>	<b>6725</b>	<b>4662</b>	<b>-46</b>	<b>-19</b>	<b>16</b>

Source: AGMARKNET-APMCs Data; 2017\*- Up to 12<sup>th</sup> June 2017

The Market prices of Pigeonpea during May and June, 2014, 2015, 2016 have been ruling higher corresponding to their MSPs. However, during the current year May & June 2017, the prevailing market prices are ruling below the MSP of Rs. 5050/qtl. The market price trend during preceding week of May and June, 2017 exhibited decreasing trend as well as over the previous year of corresponding period. Whole sale price in all major pulse producing states are less than the last year prices of the corresponding period of last year i.e. month of May & June. The details are enumerated under **Table VII**.

### **Conclusion**

As per AGMARKNET portal, the mandi arrivals of Pigeonpea for all the states from 01.07.2016 to 09.06.2017 are 57% higher as compared to the corresponding period of last year (2015-16).

**The prices during the current year/month are lower than the corresponding year/month of the last year 2016. The probable reasons of higher arrival and prevailing lower market prices may be attributed to the followings:**

- The price trends have been decreasing from March/April onwards during the current year as compared to the corresponding period of last year. It is an indicative that production and availability is more.
- The status of market arrivals during the current year is better than the last year due to excess production of 2.14 MT over the production of previous year.
- The production of this commodity is higher about 87% along with the higher market arrival of about 57% than the last year. Resultantly the prevailing prices are less at about 34% in comparison to last year. The price regime is decided by demand and supply of Tur.

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