

Appendices

Appendix 1.1

(Reference to paragraph 1.3, page 2)

List of Departments under Economic Sector

1. Agriculture and Co-operation
2. Animal Husbandry, Dairy Development and Fisheries
3. Energy
4. Environment, Forests, Science and Technology
5. Industries and Commerce
6. Information Technology and Communications
7. Infrastructure and Investment
8. Irrigation and Command Area Development
9. Public Enterprises
10. Transport, Roads and Buildings

Appendix 1.2

(Reference to paragraph 1.3, page 2)

List of Autonomous Bodies

- 1 Andhra Pradesh State Seed Certification Agency, Hyderabad
- 2 Andhra Pradesh Co-operative Rural Irrigation Corporation Ltd, Hyderabad
- 3 The Hyderabad Agricultural Cooperative Association Limited (HACA)
- 4 Andhra Pradesh Co-operative Union Ltd, Hyderabad
- 5 Andhra Pradesh Oil Fed, Hyderabad
- 6 Andhra Pradesh Co-operative Bank (APCOB), Hyderabad
- 7 Andhra Pradesh Spinfed, Hyderabad
- 8 Andhra Pradesh Co-operative Tribunal, Hyderabad
- 9 Andhra Pradesh MARKFED, Hyderabad
- 10 Acharya N G Ranga Agricultural University, Rajendra Nagar
- 11 Serifed, Hyderabad
- 12 Andhra Pradesh Sheep & Goat Development Co-operative Federation Ltd, Hyderabad
- 13 Andhra Pradesh Livestock Development Agency, Hyderabad
- 14 Andhra Pradesh State Fishermen Co-operative Societies Federation Ltd, Hyderabad
- 15 Andhra Pradesh INVEST
- 16 Andhra Pradesh Horticulture Agency, Hyderabad
- 17 Andhra Pradesh Dairy Development Cooperative Federation Ltd, Hyderabad
- 18 YSR Horticulture University Tadepally Gudem, W.G.District
- 19 Water & Land Management Training & Research Institute (WALAMTARI)
- 20 Andhra Pradesh Pollution Control Board
- 21 Andhra Pradesh Council of Science and Technology (APCOST)
- 22 Zoo Authority of Andhra Pradesh (ZAAP)
- 23 Andhra Pradesh State Biodiversity Board (APSBDB)
- 24 Society for Andhra Pradesh Network (SAPNET)
- 25 Sri Venkateswara Veterinary University
- 26 Andhra Pradesh Khadi Village Industries Board (APKVIB)
- 27 Andhra Pradesh State CAMPA
- 28 Environment Protection Training & Research Institute (EPTRI)
- 29 A.P State Co-operative Joint Farming & Labour Contract Societies Federation Ltd
- 30 Andhra Pradesh Electricity Regulatory Commission

Appendix 1.3

(Reference to paragraph 1.6.3, page 4)

Department-wise break-up of outstanding Inspection Reports and Paragraphs

Department	Number of IRs/Paragraphs issued up to 31 March 2014 and pending as of 30 September 2014	
	IRs	Paragraphs
Agriculture and Cooperation	801	3062
Animal Husbandry, Dairy Development and Fisheries	233	1019
Energy	5	20
Environment, Forests, Science and Technology	440	1094
Industries and Commerce	249	846
Information Technology and Communication	8	70
Infrastructure and Investment	14	87
Irrigation & Command Area Development [@]	1663	4821
Roads and Buildings	454	1321
Total	3867	12340

[@] Including IRs/paras pertaining to Pay and Accounts Offices (Works) under Finance (Works & Projects) Department

Appendix-2.1

(Reference to paragraph 2.1.8.3, page 15)

Details of testing facilities partially available at APPCB's Zonal Laboratories

Group	Category of tests	Number of mandatory parameters to be tested	Number of test parameters for which facilities were available at the Zonal Labs			
			Hyderabad (at Warangal)	Vijayawada	Visakhapatnam	Kurnool
A	Physical tests	10	10	8	8	10
B	Inorganic tests	13	16	15	15	13
	i) General and Non-metallic					
	ii) Trace metals	15	8	10	10	7
C	Organic tests (General and Trace organics)	5	5	7	7	4
D	Micro-biological tests	4	2	2	2	4
E	Toxicological Tests	1	--	1	1	-
F	Biological tests	3	3	1	1	3
G	Characterization of Hazardous Waste	3	--	4	4	3
H	Soil/Sludge/Sediment and Solid Waste tests	15	11	13	13	4

Appendix-2.2

(Reference to paragraph 2.1.8.3, page 15)

Status of testing equipment available at APPCB's Zonal Laboratories

	Name of the Equipment/Instrument	Number prescribed	Number available and functional or non-functional				
			RC Puram	Warangal	Visakha-patnam	Vijaya-wada	Kurnool
1	Gas Chromatograph with Air sampling port, PPID & PFPD detectors.	1	1 (N.F)	1 (N.F)	1 (N.F)	1	-
2	Atomic Absorption Spectro-Photometer (AAS Instrument with 58 accessories)	1	1	1	1	1	-
3	Conductivity Meter	1	1	1	1	-	1
4	Turbidity Meter	1	--	--	--	-	-
5	Mercury Analyser	1	--	--	--	-	-
6	Rotary Evaporator	1	1 (N.F)	1	--	--	-
7	U.V.Spectrometer	1	1	1 (N.F)	1 (N.F)	1 (NF)	1
8	BOD Incubator	1	1 (N.F)	--	1	1	1
9	Acquarium for bioassay test	4	--	4	--	--	-
10	Hot Air Oven	2	1	4	3	2	2
11	Hot Plate	2	1	2 (N.F)	1	1	1
12	Laminar flow	1	--	--	1	--	-
13	Ultra-sonic water bath	1	1 (N.F)	--	--	--	-
14	Micro-wave digester	1	1 (N.F)	1	1 (N.F)	1	1
15	RSPM sampler	4	5	10	19	5	5
16	Stock monitoring kit with high temperature probes	2	1	1	1 (N.F)	1	1
17	BTX Analyser	1	--	--	--	--	-
18	BTX Calibrator	1	--	--	--	--	-
19	Exhaust CO/HC analyser	1	--	--	--	--	-
20	Flue gas analyser	1	1	--	--	--	-
21	Handy sampler for gaseous monitoring	2	3 (N.F)	2	--	2	-
22	Smoke density meter	1	1	--	--	2 (N.F)	1
23	Ozone Analyser	1	--	--	--	--	-
24	SO2 Analyser	1	--	--	--	--	-
25	Soap bubble meter	1	--	1	1 (N.F)	1	1
26	NO – NO2 – Noxanalyser	1	--	1	--	--	-
27	Total organic Carbon (TOC) Analyser	1	1 (N.F)	--	1 (N.F)	1 (N.F)	1 (N.F)
28	Water quality Monitoring Instrument	1	1	1	1	1	-
29	Automatic COD digestion unit	1	--	2	2	2	1

N.F.: Non-functional

Appendix 2.3
(Reference to paragraph 2.1.10.8, page 22)

Details of short fall in conducting inspections of industries by the APPCB

Name of the Regional Office	Total no. of red category of industries					No. of inspections conducted					Shortfall in Inspections (@ at least one inspection per industry per year)				
	2009-10	2010-11	2011-12	2012-13	2013-14	2009-10	2010-11	2011-12	2012-13	2013-14	2009-10	2010-11	2011-12	2012-13	2013-14
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Hyderabad	129	140	153	163	165	59	110	51	97	79	70	30	102	66	86
Warangal							Information not furnished								
Sangareddy-I	196	221	235	262	286	120	127	142	140	178	76	94	93	122	108
Nalgonda	195	205	235	385	396	95	77	69	55	119	100	128	166	330	277
Vijayawada	215	248	260	277	421	57	127	171	95	128	158	121	89	182	293
Guntur	314	251	91	369	412	42	75	54	114	197	272	176	37	255	215
Vishakapatnam	244	269	292	383	443	30	73	72	109	131	214	196	220	274	312
Kakimada							Information not furnished								
Kurnool	181	192	221	241	353	52	58	48	56	58	129	134	173	185	295
Tirupati	594	594	594	594	594	103	109	109	86	92	491	485	485	508	502
Total	2068	2120	2081	2674	3070	558	756	716	752	982	1510	1364	1365	1922	2088

Appendix 2.4

(Reference to paragraph 2.2.9, page 47)

Details of Gaps identified in Research and Extension activities

Year	Product	Gaps Identified
2009	Rice	Timing of insecticides application for stem borer management is difficult.
		Demonstration to assess the feasibility of paddy seed production in Musi river area in coordination with SRTC & DAATC.
	Sunflower	Popularization of NDSH-1 sunflower hybrid. Maintenance of optimum plant population.
	Safflower	Popularization of safflower hybrid – DSH129 & NARI-SH-1
2010	Agricultural Ornithology	Training on wild boar management
2012	Maize	Popularization of newly developed maize hybrid (DHM-177)
	Rice	Management practices for sulphide injury.
		How to incorporate stubbles after harvesting
	Sorghum	Popularization of sorghum varieties and hybrids.
	Redgram	Popularization and timely management of pod borer in redgram
	Bio control	Documentation of parasites and predators of mealy bugs and Bt. Cotton.
		BIPM in rice, cotton and castor
		Popularization of Trichoderma sp. For the management of gummosis and dry root rot in sweet orange
		Awareness about bio-pesticides/bio fertilizers and their difference with bio products in the light of the court order.
	Fodder Crops	Awareness about quality assessment and management in bio-pesticides with special reference to NPV and Trichoderma.
		Popularization of different fodder crops.
	Soil Science	Farmers are using excess amount of fertilizers. Therefore wide publicity through media, DAATC's and KVK's may be made to farmer community
	Extension Group	Labour shortage in paddy
		Weed control
Micronutrient management in sweet orange.		
Introduction of high yielding hybrids from ANGRAU in maize		
Application of gypsum in groundnut.		
Availability of YMV resistant black gram.		
Indiscriminate use of phosphatic fertilizers in paddy and cotton		
Mangu mite incidence in sweet orange		
Zinc deficiency in paddy		
2013	Rice	Variety similar to MTU-1010
		Compatibility of insecticides, fungicides and Zn
		Conoweeder for weeding in rice sown with drum seeder.
	Pulses and Oil Seeds	Availability of wilt resistant redgram varieties.
		Suitable redgram varieties for STZ
		Short duration redgram variety for STZ
		Pest problem in pigeonpea Maruca

Appendix 2.5

(Reference to paragraph 2.2.9.1, page 48)

Details of new seed varieties released but there was low/nil demand

(quantity in Quintals)

Name of the crop	Year (No. of varieties released)	Name of the hybrid	Breeder seed produced during 2009-14	
Rice	2009-10 (7)	Amara (MTU 1064)	211.64	
		Ramappa (WGL 23985)	197.50	
		Srisatya (RGL 1880)	0	
		Taramati (RNR 23064)	34	
		Manairsona (JGL 3828)	130.58	
		Jagtial Samba (JGL 3844)	328.76	
		Nellore Mahsuri (NLR 34449)	695.90	
	2010-11 (6)	Sugandha samba RNR 2465	135.50	
		Vamsadhara RGL 11414	23.6	
		Bhavapuri Sannalu BPT 2270	82.4	
		Akshaya BPT 2231	79.71	
		Karimnagar Samba JGL 3855	237.47	
		Jagitial Masuri JGL 11470	274.32	
	2011-12 (8)	Pranahitha JGL 11727	66.7	
		Pratyumna JGL17004	41.4	
		Anjana JGL 11118	30	
		Krishna RNR 2458	1	
		Nellore Sona NLR 3041	5.5	
		Swetha NLR 40024	0	
		Sidhi WGL 44	88	
		Sheethal WGL 283	74.4	
	Maize	2009-10 (3)	BH40625 (DHM117)	76.11
			BH1620 (DHM113)	0
BH1576 (DHM111)			0	
Groundnut	2009-10 (4)	Kadiri 7 Bold (K1340)	497.09	
		Kadiri 8 Bold (K1341)	158.46	
		Kadiri 9 (K1375)	3044.02	
		Greeshma (TCGSAPNL888)	97.85	
	2010-11 (3)	Anantha (K1271)	276.2	
		Bheema (TG47)	0	
		Rohini (TCGSAPNL913)	0	
2012-13 (1)	Dharani (TCGS1043)	614.1		
Soya	2009-10 (1)	LSB 3	0	
	2012-13 (2)	Basara (ASB22)	0	
		Bheem (LSB18)	0	

Appendix 3.1

(Reference to paragraph 3.2.2, page 69)

Details of number of villages submerged, families affected, R&R centres and Housing Units contemplated in the test checked projects

S. No	Project	No. of villages submerged			No. of families affected		No. of R&R centres contemplated	No. of Housing units contemplated
		In full	Partial	Total	PAF	PDF		
1	Galeru Nagari (Phase I)	22	3	25	7251	7251	14	5828
2	Gundlakamma	11	1	12	6559	6559	24	4566
3	Polavaram	119	159	278	45952*	45952*	280	2489*
4	Pulichintala	27	1	28	13509	13231	27	10768
5	Thotapally	20	0	20	5915	5915	21	4112
6	Vamsadhara	20	0	20	8658	7104	26	4816
7	Veligonda	11	0	11	3863	3863	8	Not yet assessed
8	Bheema	7	1	8	6156	6156	10	2714
9	Flood flow Canal	18	5	23	11123	11123	12	5155
10	Yellampally	19	3	22	12967	12967	17	9060
	Total in test checked projects	274	173	447	121953*	120121*	439	49508*
	Total in the State	361	193	554	142230*	138789*	512	65275*

* Does not include data relating to Khammam district under Polavaram project which was yet to be fully assessed

Appendix 3.2

(Reference to paragraph 3.2.7, page 74)

Status of preparation of village wise R&R estimates in test checked projects

S No	Project	Submerged villages	Villages where SES was conducted	No. of villages where R&R estimates were prepared	Balance
1	Galeru Nagari (Phase I)	25	17	13	4
2	Gundlakamma	12	12	4	8
3	Polavaram	278	278	*	*
4	Pulichintala	28	28	15	13
5	Thotapally	20	20	20	00
6	Vamsadhara	20	20	00	20
7	Veligonda	11	11	00	11
8	Bheema	8	8	00	08
9	Flood flow Canal	23	11	11	00
10	Yellampally	22	21	21	00
	Total	447	426	84	64

* Information in respect of 278 villages notified under Polavaram project was not furnished by the Project Administrators

Appendix 3.3

(Reference to paragraph 3.2.9, page 76)

R&R benefits to be given to affected families as per R&R Policy

Para No. of Policy	Grant	Purpose	Amount / benefit
6.2	House site / Ex-gratia	For PDFs whose sites were acquired	House site of 202 SqM in rural and 75 SqM in urban areas
6.3	Housing grant as One time Financial assistance	For PDFs whose sites were acquired	₹50000
6.4	Allotment of land	PAFs becoming small or marginal farmers	2.5 Ha dry or 1.25 Ha wet land
6.7	Cattle shed grant	For PAFs having cattle	₹15000
6.8	Transporting grant	For transporting / shifting building materials	₹5000
6.9	Income grant	For rural artisan / small trader / self employed	₹25000
6.10	Wages if land owner becomes landless	For loss of livelihood in lieu of land acquired if no land is allotted	750 days minimum agricultural wages
6.11	Wages if land owner becomes marginal farmer	For loss of livelihood in lieu of land acquired if no land is allotted	500 days minimum agricultural wages
6.12	Wages if land owner becomes small farmer	For loss of livelihood in lieu of land acquired if no land is allotted	375 days minimum agricultural wages
6.13	Wages to labourers	For agricultural laborers	625 days minimum agricultural wages
6.14	Subsistence allowance	In addition all other benefits to PAFs who are also PDFs	240 days minimum agricultural wages
6.14	Pension	Vulnerable persons	₹500 a month

Appendix 3.4
(Reference to paragraph 3.2.9, page 76)

Housing and Transportation grants paid before allotment of house-sites

Name of the Project and Village	No. of PDFs	PDFs for which house sites allotted	Period of allotment	PDFs for which housing grant paid	Period of payment of housing grant	Housing grant paid (₹ in crore)	PDFs for which transport grant paid	Period of payment of transport grant	Transport grant paid (₹ in crore)
Thotapally									
Nandivanivalasa	27	27	January 2008	26	October 2005	0.10	23	September 2006	0.01
Naviri	341	339	November 2008	333	March 2006	1.33	290	September 2006	0.14
Naviri colony	62	62	November 2008	61	March 2006	0.24	56	September 2006	0.02
Gijaba	683	666	November 2007 June 2008	666	July 2007	3.53	589	April/ June/ July 2007	0.29
Basangi	430	0	Yet to be allotted (July 2014)	286	July 2009	0.51	262	November 2007 August 2008	0.13
Yellamapally									
Suraram	209	209	2013	227	February/ March 2011 July/October 2012	1.13	159	February/ March 2011 July/October 2012	0.08
Gullakota	819	819	2013	804	December 2010 March/ December 2011	4.02	687	December 2010 March/ December 2011	0.34
Padthanpally	336	336	Yet to be allotted (December 2013)	227	December 2008 February 2012	1.13	196	December 2008 February 2012	0.09
Karanamamidi	1054	1054	Yet to be allotted (December 2013)	998	2009 2012	4.99	763	2009 2012	0.38
Rapally	885	885	Yet to be allotted (December 2013)	813	February/ March 2009	4.06	678	February/ March 2009	0.34
Total						21.04			1.82