

Part – II



Annexures



AFC, Hyderabad

Annexure I.1

TERMS OF REFERENCE FOR ENVIRONMENTAL EVALUATION STUDY OF SINGUR PROJECT

The Terms of Reference (ToR) as indicated by the CWC for conduct of the present evaluation comprise studying the impact of the project on Resettlement and Rehabilitation, Socio-economic Environment, Agriculture, Irrigation and Drainage, Flora and Fauna, Land Use Pattern, Public Health, etc. The detailed Terms of Reference (ToR) for each of these components as given by the CWC are presented below:

Effects of Rehabilitation

The study would analyse the effects of construction of project on rehabilitation and resettlement of the affected villages. It shall include the status of allotments of land / plots to affected population including landless workers.

- a) Details of rehabilitation sites where rehabilitation has been carried out;
- b) Actual photographs of rehabilitation sites and houses and details thereof;
- c) Environment and sanitation status;
- d) Details of amenities and infrastructure facilities provided to the rehabilitated families;
- e) Progress of economic rehabilitation programmes;
- f) Details of the occupational training programmes conducted for project affected persons;
- g) Details about health status and health services provided in the project area;
- h) Response of the oustees to the process of rehabilitation and constraints
- i) Status and living standards of the oustees at new location and compare it to the pre project baseline.

Socio-economic impacts including changes in literacy, employment

- a) Details of status of schools / teaching staff, student turnover;
- b) Improvement in male- female literacy, evaluation of adult education programmes, provided if any;
- c) Response to education provisions and assessment of constraints;
- d) List of post project occupational options that have arisen in the region and also make a statement what occupations are attributable to project benefits;
- e) List all the new educational, cultural, recreational and commercial (markets, banks, etc.) institutions accessed that have come up in the post project situation and state how much of it is attributable to the project;
- f) Compare the incidence of some important diseases in post and pre project situations;
- g) Compare the health care infrastructure in the post and pre project situation;
- h) Compare the Human Development Index (to the extent that the data is available) in the post and pre project situations.



Effects on agriculture including

- a) Improvement in Production
- b) Changes in cropping pattern and improvement in cropping intensity due to the project on agricultural / horticulture / animal husbandry;
- c) Improvement in quality of livestock and poultry;
- d) Assess agriculture cooperative and agriculture finance programmes if initiated;
- e) Detail of the steps taken to prevent contamination of ground and surface water due to fertilizers, pesticides, run off, etc.
- f) Development of Industry in the command area;
- g) Overall development scenario in the command area.

Impact on Groundwater

- a) Impact on quality and quantity of groundwater
- b) Changes in groundwater table in recharge zones

Impact on drainage including identification of water logged or saline areas while undertaking this task, the consultant would also use Remote Sensed Data and would present the data in GIS

- a) Increase in the water logged area and mapping of specific area;
- b) Arriving at an understanding of how the water logging has increased;
- c) Estimation of increase in the salinity effected soils and mapping of the same;
- d) Arriving at an understanding of how the salinity has increased;
- e) Compare the drainage characteristics of pre and post project situations.

Impacts on archaeological monuments, economically important minerals and places of worship

- a) List of the archeological monuments and places of worship that are restored as a part of EMP, record their status and enlist reasons;
- b) List new places of worship and monuments that have come up during the post project period;
- c) List the new recreational opportunities that have come up in post project situation;
- d) List the pre project and post project status of economically important minerals and the means and activities of harnessing the same.

Impacts on forest including types of forests, forest cover, introduced species, changes in forest based livelihoods and list of endemic and endangered species if any

- a) Assess changes in the forest cover, forest types;
- b) Assess changes in Importance Value Index (IVI), Shannon diversity Index, relative abundance and density of key species;
- c) Assess effectiveness of forestry programs, contribution to sustaining local



- population needs (in eco development perspective);
- d) Contribution to economic activities related to medicinal plants in sustaining livelihoods of local population, if any;
- e) Status of endemic and endangered species and evaluation of conservation programs, if any.

Impacts on fauna including birds and aquatic life

- a) List terrestrial, avi and aquatic fauna
- b) Assess changes in terrestrial fauna and their migratory patterns, if any
- c) Assess changes in avi fauna and their migratory patterns, if any
- d) Assess fish life and aquatic ecology - benthic changes in terms of both macro benthoses - micro benthos, primary productivity of reservoir;
- e) Status of endemic and endangered species and evaluation of conservation programmes, if any;
- f) Assess effectiveness of wildlife conservation programs, pisciculture development programmes, and other activities contributing to sustaining local population livelihoods.

Impact on public health, drinking water supply, communications and quality of life in general

- a) Study the occurrences of diseases such as, typhoid, diarrhoea, malaria, jaundice and other water borne & water related diseases in pre and post project implementation scenario;
- b) Ascertain impacts due to reservoir impoundment, water logging and spread of such diseases, if any;
- c) Improvements in water supply provisions in pre and post implementation scenario;
- d) Improvements in communication and transportation facilities in post implementation scenario;
- e) Contribution of development in terms of provisions of infrastructure, facilities, amenities, economic compensation packages, etc., in improving quality of life;
- f) Effective implementation of EMPs in maintaining and improving quality of life of local population.

Changes in land use pattern

- a) Using image processing carry out land use / land cover classification and map on GIS;
- b) Using overlays identify new development triggering land use changes;
- c) Conduct ascertaining ground truths and physical investigations for validating such results;
- d) Map changes in land use / land cover before and after implementation of the project.



Assessment and Evaluation of implementation of Environmental Management Plan (EMP) if any

- a) Assess and evaluate R & R ,compensatory afforestation, green belt development, health systems, fish development, catchment area treatment, reservoir rim treatment, landscape restoration, muck disposal; ecological conservation, etc. in terms of
 - i) Schedule of activities, manpower requirements and performance indicators.
 - ii) Financial arrangements and returns - Cost Benefit Analysis (CBA) and wherever Return on Investment (ROI) was identified;
 - iii) Institutional arrangements suggested
- b) Evaluate the outcomes of EMP, assess its conformance to anticipated outcomes, understand the departures if any;
- c) Develop a modified EMP involving compensatory afforestation, green belt development, health systems, fish development , catchment area treatment, reservoir rim treatment, landscape restoration, ecological conservation, etc.
- d) Suggest any modifications / revisions to performance indicators and institutional measures;
- e) Identify needs in revisions to financial arrangements.

Status of implementation of Catchment Area Treatment (CAT) Plan

- a) Study the catchment area treatment measures suggested;
- b) Progress of the bioengineering and civil works carried out so far;
- c) Identify areas where soil erosion and sediment yield arrest has been successful;
- d) Identify areas where soil erosion and sediment yield arrest has not been successful, and thus evaluate and revise measures implemented to assess their effectiveness in local conditions;
- e) Assess CAT plan implementation expenditure and cost over runs, in non - functioning treatment measures;

Suggestions for Improvement

The suggestions for improvement may cover salient modifications to R&R Compensatory Afforestation, Green belt Development, Health systems, Fish development, Catchment Area Treatment, Reservoir Rim Treatment, Landscape restoration, Ecological conservation etc. However, the Consultant may:

- a) Prioritize the modifications based on the criteria that achieve improved stakeholder satisfaction
- b) Identify areas where implementation of EMPs require improvements in terms of



manpower deployment, financial arrangements, actors involved, technology deployed, etc.

- c) Suggest revised performance or success criteria

Recommendations for Improvements

The recommendations would cover each element of R&R, Compensatory Afforestation, Green belt development, Health systems, Fish development, Catchment Area Treatment, Reservoir Rim Treatment, Landscape Restoration, Ecological conservation etc. as in previous EIA, and state its present status against anticipated / desired outcome; potential causes for deviation; suggested modification; evaluation of suggested modification; costs and benefits; institutional requirements (roles/timelines/legislative); success criteria and success measures.

The evaluating agency would discuss the draft recommendations with CWC before discussing with stakeholders and experts. The opinions of and feedback from the stakeholders would be evaluated along with CWC before finalizing the recommendations of the evaluating agency. The recommendations of the evaluating agency may be considered for evaluation by the CWC and, if found pragmatic, may be taken up for implementation.

Source: Terms of Reference (TOR).



Annexure II.1

Salient Features of Singur Project

1	RIVER	Manjira	
2	VILLAGE	Singur	
	MANDAL	Pulkal	
	DISTRICT	Medak	
3	LOCATION		
	Latitude	17 ⁰ - 45'	North
	Longitude	77 ⁰ - 56'	East
4	CATCHMENT AREA		
	Maharashtra	10472	sq.km
	Karnataka	4,015	sq. km
	Andhra Pradesh	1,610	sq. km
	Total	16,097	sq. km
5	RESERVOIR STANDARDS		
	a) FRL & MWL	523.6	m
	b) Gross storage capacity	846.83	MCM
	c) TBL	527.85	m
	d) Dead Storage Level	518.25	m
	e) Dead Storage Capacity	282.3	MCM
	f) Water spread area at FRL	164.38	sq.km
6	SPILLWAY		
	Design Flood	23,103	cumec
	Maximum of flood discharge	22084	cumec
	Lowest Bed level	500	m
	Crest Level	510.6	m
	Head of discharge	13	m
	Top of crest gates	523.6	m
	No. of radial gates Size 15 x 13 m.	17	Nos.
	Length of Masonry spillway	327	m
	Length of power blocks (non over flow portion of Masonry dam)	81.1	m
7	Earth Dam		
	i) T.B.L.	527.85	m



Annexure II.1

Salient Features of Singur Project

1	RIVER	Manjira	
	ii) Length of left flank	3993	m
	iii) Length of right flank	3120	m
	iv) Total length of earth dam	7113	m
8	Head Regulators		
	i) Left Flank		
	Sill Level	520	m
	Number of Vents	4	Nos
	Size of Vents	2.50 x 2.00	m
	ii) Right Flank		
	Sill Level	520	m
	Number of Vents	1	Nos
	Size of Vents	1.50 x 1.00	m
9	Command Area		
	Total Area Proposed	16,000	ha
	Total Length of Canals	60	km
	Left Canal		
	Length of canal proposed	48	km
	Ayacut proposed	15,000	ha
	Discharge Capacity	25.49	Cumec
	Right Canal		
	Length of canal proposed	12	km
	Ayacut proposed	1,000	ha
	Discharge Capacity	1.61	Cumec

Source: DPR of Singur Project Report



Annexure – II.2

**District Average Rainfall Season-Wise and Month-Wise (In Mm)
for the Years 2001-2002 To 2007-2008**

Year	South West Monsoon Period					North West Monsoon Period				Winter Period			Hot Weather Period				Total Of The Year	
	June	July	Aug	Sep	Total	Oct	Nov	Dec	Total	Jan	Feb	Total	March	April	May	Total	Normal	Actual
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
2001-02	163.2	69.8	152.9	110.2	496.1	154	0.5	NIL	154.7	15.7	--	15.7	0.8	6.9	15.7	23.4	873	689.9
2002-03	89.7	61.3	202.6	78.4	431.9	88.1	NIL	NIL	88.1	NIL	2	2	12.1	7.4	0	19.5	873	541.6
2003-04	91	212.9	249.2	111.8	664.7	72.9	0	0	72.9	18.2	3.5	21.7	10.7	24	25	59.7	873	819
2004-05	37.5	221.8	50.6	82.9	392.8	59.6	1	0	60.6	19.6	11.6	31.1	19.1	17.1	5.9	42	868.3	526.6
2005-06	51.1	292.1	78.3	227	648.5	113	0	2	115.3	0	0	0	53.2	38.4	41.7	133.3	868.3	897.1
2006-07	83.4	107.1	235.6	233.3	659.4	25.7	24.9	0	50.6	0	0	0	0	9.8	15.7	25.5	735	868
2007-08	151.4	100.7	144.9	194.1	591.1	12.1	12.5	0	24.6	0	37.3	37.3	130.1	18.4	3.8	152.2	868.3	805.3
MEAN	95.3	152.2	159.2	148.2	554.9	75.1	5.6	0.3	81	7.6	7.8	15.4	32.3	17.4	15.4	65.1	851.3	735.4

Source: DPR of Singur Project Report



Annexure II.3

**Manjra Sub-Basin; Monthly Average Maximum and Minimum Temperature Observed
at Different IMD Observatories Unit: °C**

Month	Max/Min	Beed 1960-70	Nanded 1960-70	Bidar 1931-60	Nizamabad 1931-60	Hyderabad 1931-60
Jan.	Max	29.9	30.3	28.3	30.3	28.6
	Min	12.3	13.8	16.5	15.3	14.6
Feb.	Max	33.1	34	31.1	32.6	31.2
	Min	14	15.5	18.7	17.5	16.7
Mar.	Max	36.5	37.3	34.6	36.4	34.8
	Min	18.4	19.4	21.9	21	20
Apr.	Max	39.6	40.4	36.9	39.2	36.9
	Min	22.7	23.1	24.5	24.8	23.7
May.	Max	40.9	41.7	38.6	41.5	38.7
	Min	24.5	25.9	26	27.7	26.2
June.	Max	36	36.8	33.3	36.2	34.1
	Min	23.9	23.4	22.9	25.4	24.1
July.	Max	31.7	32.1	29	30.5	29.8
	Min	22.9	22.2	21.3	23.2	22.3
Aug.	Max	30.9	31	28.7	30.1	29.5
	Min	22.3	22	21	23	22.1
Sep.	Max	31.2	31.4	28.8	30.6	29.7
	Min	21.5	22	21	22.7	21.6
Oct.	Max	32.8	33.3	29.5	31.5	30.3
	Min	18.7	19.4	20.6	20.6	19.8
Nov.	Max	30.5	31.3	27.9	29.7	28.7
	Min	14.9	15.3	18	16.2	16
Dec.	Max	28.9	29.8	27.1	28.9	27.8
	Min	12.3	12.7	16.2	13.8	13.4
Annual	Max	33.5	34.1	31.1	33.1	31.7
Mean	Min	19	19.5	20.7	20.9	20

Source: India Meteorological Department - Climatological tables of observatories in India



Annexure II.4

**Manjira Sub-Basin: Monthly Average Humidity Observed at Different IMD
Observatories**

Unit: Percent

Month		Beed	Nanded	Bidar	Nizamabad	Hyderabad
	Hour	1960-70	1960-70	1931-60	1931-60	1931-60
Jan.	8.30	68	61	62	64	79
	17.30	39	42	35	32	36
Feb.	8.30	57	48	50	53	64
	17.30	31	29	29	28	35
Mar.	8.30	49	44	44	42	54
	17.30	27	27	26	21	30
Apr.	8.30	44	39	49	41	51
	17.30	25	25	31	21	31
May.	8.30	48	41	51	37	50
	17.30	26	25	30	22	33
June.	8.30	72	68	76	65	71
	17.30	49	48	54	47	54
July.	8.30	81	81	86	79	83
	17.30	67	67	67	68	69
Aug.	8.30	82	81	86	80	82
	17.30	65	68	68	70	70
Sep.	8.30	84	81	84	81	82
	17.30	63	66	68	68	10
Oct.	8.30	70	66	70	72	73
	17.30	43	45	54	53	58
Nov.	8.30	66	62	61	66	68
	17.30	45	41	43	41	48
Dec.	8.30	70	63	61	67	71
	17.30	47	41	39	33	42
Annual	8.30	66	61	65	62	69
Mean	17.30	44	44	45	42	48

Source: India Meteorological Department - Climatological tables of observatories in India



Annexure II.5

**Manjira Sub-Basin Monthly Average Wind Speed Observed at Different IMD
Observatories**

Unit: km/hour

Month	Beed	Nanded	Bidar	Nizamabad	Hyderabad
	1960-70	1960-70	1931-60	1931-60	1931-60
Jan.	3.1	42	10.6	4.1	8.1
Feb.	3.8	4	10.6	4.7	8.9
Mar.	5.1	5.1	10.8	5.1	9.6
Apr.	6.5	5.7	11.2	5.4	10.9
May.	9.8	7.1	13.7	6.7	12.4
June.	10.9	10.6	20.7	8.9	23.8
July.	10.7	9.5	22.5	8.6	22.1
Aug.	9.1	7.5	18.5	7.1	18.3
Sep.	5.9	6.6	13.2	5.4	12.6
Oct.	4.3	4.4	8.8	4.2	8.9
Nov.	3.6	4.2	9.3	3.9	8
Dec.	3	3.7	9.4	3.5	7.4
Annual	6.3	6.1	13.3	5.6	12.6

Source: India Meteorological Department - Climatological tables of observatories in India



Annexure - III. 1

**Details Of Land Coming Under Submergence Of Singur Project in Andhra Pradesh
for Which Compensation Paid**

Sl. NO	Name of Village	Land Acquired (ha)	Amount paid (Rs.)
1	Aythmal	0134.96	5287837.8
2	Allapur	25.46	564511.53
3	Ameerabad	118.96	7150981.6
4	Badalgoan	88.3	5661418.4
5	Ballapur	462.48	27525656.1
6	Belore	529.85	10282429.73
7	Bogulampally	103.62	2316188.13
8	Boothkur	162.99	4372197.36
9	Borancha	344.15	19248979
10	Busareddypally	675.63	7572324.23
11	Chalki	50.67	3019509.6
12	Cheekurthi	55.13	2555725.25
13	Chirlapally	4.06	118710.1
14	Devnoor	244.78	9113599.97
15	Danwar	175.51	9811026
16	Doultabad	185.59	4181411.83
17	Garlapally	150.57	3222123.76
18	Godegoan	19.55	486734.55
19	Gorrekal	9.36	538136.4
20	Gouthapur	1.05	26423
21	Gudur	40.01	1076272.25
22	Hasnabad	107.79	10939064.26
23	Hannapur (L/F) Pulkal	464.47	9101951.06
24	Hannapur (R/F) Nyakal	15.13	265342.9
25	Hukrana	91.27	5474488.68
26	Hussainnagar	90.11	5872919.25
27	Ibrahimpur	7.6	22241.9
28	Indur	848.7	18426403.91
29	Itkepally	247.77	7809962.6
30	Jamalpur	24.04	969176.04



Annexure - III. 1

**Details Of Land Coming Under Submergence Of Singur Project in Andhra Pradesh
for Which Compensation Paid**

Sl. NO	Name of Village	Land Acquired (ha)	Amount paid (Rs.)
31	Janaganusrikapally	117.09	2917872.4
32	Kakijanwada	196.22	10255950.5
33	Karamungi	61.86	3839891.7
34	Karachal	16.58	1067877.55
35	Khanjamalpur	56.11	1688267.62
36	Kalleyppally	439.89	7562094.12
37	Kadirabad	948.02	21019212.48
38	Kodur	726.88	15841958.12
39	Magdoompur	52.58	1564824.8
40	Mathur	61.02	3707579.55
41	Makta Kyasaram	356.39	8784495.97
42	Mallikarjunapally	288.09	8563252.15
43	Mamidipally	252.1	6368088.86
44	Manthur	585.76	11691756.15
45	Morgi	44.07	2953238.25
46	Moratga	170.02	3256698
47	Murthjapur	32.02	17002621
48	Nirjapal	495.3	19195787.61
49	Nagwar	2.69	98484
50	Narayanpally	31.33	594733.5
51	Pampad	439.64	23665625.77
52	Paldgu	356.93	16233980.37
53	Peddareddypet	149.74	14803030.71
54	Pipalpally	223.8	5023229.45
55	Pulkurthi	476.38	18981682.83
56	Ragavpur	59.36	3456048.75
57	Raipally	186.76	3994927.36
58	Ramchadrapur	374.22	3477561.42
59	Rakulpad	193.23	2206355.24
60	Shahpur (L/F) Manoor	15.66	0
61	Shahpur (R/F)	22.42	1389067.85



Annexure - III. 1

**Details Of Land Coming Under Submergence Of Singur Project in Andhra Pradesh
for Which Compensation Paid**

Sl. NO	Name of Village	Land Acquired (ha)	Amount paid (Rs.)
	Raikode		
62	Shikarkhana	7.36	184184
63	Singur	296.96	3071255.78
64	Sirur	159.3	5793173.53
65	Seripeddareddypet	186.71	1795589.26
66	Takkadpally	36.14	734661.95
67	Tatpally	11.38	309818.7
68	Tornal	25.15	1515802.77
69	Usirikapally	257.18	7728007.78
70	Pulkal	16.56	130200
71	Lonikurd	6.63	481000
72	Bodapally	1.3	92300
	Total		446055935

Source: Compiled based on information provided by special Deputy Collector, Singur Project.



Annexure - III. 2**Details of Structures Acquired and Compensation Paid in AP Under Singur Project**

Sl. NO	Name of the Village	No of Structures	Compensation paid `
1	Aythmal	257	5112815.65
2	Allapur	93	2772043.5
3	Ballapur	484	13848376.5
4	Beloor	220	5923652.90
5	Bogulampally	49	645028.19
6	Busareddypally	338	5486547.97
7	Doultabad	87	1937896.10
8	Garlapally	209	3649511.60
9	Hunnapur	207	3154486.70
10	Indoor	484	9328711.40
11	Itkepally	229	3635764.95
12	Jangamusrikapally	160	2205437.18
13	Kalleepally	134	3139044.43
14	Khadeerabad	287	8185439.67
15	Kodur	182	4483119.28
16	Lonikurd	343	6409540.00
17	Makktakyasaram	190	3208630.26
18	Mallikarjunapally	266	8579341.80
19	Mamidipally	187	2665196.7
20	Manthur	315	5133854.85
21	Mortaga	91	1628048.39
22	Nirjapla	408	7297296.16
23	Paladgu	142	2190364.30
24	Peddareddypet	146	4337630.70
25	Peepalpally	58	1641634.90
26	Pulkurthy	256	8036541.95
27	Raipally	142	2656484.95
28	Ramchandrapur	114	2940347.00
29	Sisru	317	5580100.88
30	Seripeddareddypet	55	1141735.75
31	Takkadpally	82	1626926.2
32	Usrikapally	224	3887393.25
33	Singur	347	47752000.00
	Total	7103	190220944.10

Source: Compiled based on information provided by special Deputy Collector, Singur Project.



Annexure - III. 3

**Statement Showing The Year Wise Expenditure Particulars of Singur Project Deposited at
Spl Dy Collector Sangareddy**

(Amount In Lakh `)

Sl. No	YEAR	Budget	PAYMENT (Expenditure)	Works Expenditure	Total Expenditure	Remarks
1	2		3	4	5	6
	Amount place by SPCI (Defunct) Division SRD from -1977-78 to 1986-87	-	161.58	0	161.581	
	Amount place by this Division from - 1981-82 to 1991-92 -	-	41.969	0	41.969	
	1976 - 1977	-	0	44.912	44.912	
	1977 - 1978	-	0	54.995	54.995	
	1978 - 1979	-	0	113.689	113.689	
	1979 - 1980	300.00	0	163.088	163.088	
	1980 - 1981	229.00	22.5	285.454	307.954	
	1981 - 1982	330.00	9	328.573	337.573	
	1982 - 1983	500.00	49.655	404.795	454.45	
	1983 - 1984	750.00	196.82	258.117	454.939	
	1984 - 1985	725.00	313.45	382.707	696.157	
	1985 - 1986	1000.00	1032.3	348.606	1380.929	
	1986 - 1987	1920.00	1071.8	757.291	1829.12	
	1987 - 1988	1000.00	263.47	404.05	667.52	
	1988 - 1989	20000.00	1475.9	846.689	2322.587	
	1989 - 1990	1500.00	950.76	331.216	1281.976	
	1990 - 1991	500.00	562.92	191.681	754.6	
	1991 - 1992	750.00	396.9	186.607	583.508	
	1992 - 1993	550.00	67.47	569.8	637.27	
	1993 - 1994	550.00	287.27	421.172	708.439	
	1994 - 1995	650.00	54	670.72	724.72	
	1995 - 1996	2620.00	390.79	274.889	665.68	
	1996 - 1997	727.00	221.62	291.942	513.56	



Annexure - III. 3

**Statement Showing The Year Wise Expenditure Particulars of Singur Project Deposited at
Spl Dy Collector Sangareddy**

(Amount In Lakh `)

Sl. No	YEAR	Budget	PAYMENT (Expenditure)	Works Expenditure	Total Expenditure	Remarks
1	2		3	4	5	6
	1997 - 1998	400.00	105.87	198.628	304.5	
	1998 - 1999	500.00	152.67	179.962	332.631	
	1999 - 2000	400.00	79.124	264.173	343.297	
	2000 - 2001	900.00	162.87	139.36	302.23	
	2001 - 2002	391.00	211.95	106.865	318.818	
	2002 - 2003	300.00	0	193.026	193.026	
	2003 - 2004	260.00	93.204	79.726	172.93	
	2004 - 2005	500.00	711.34	50.526	761.87	
	2005 - 2006	1000.00	358.43	52.831	411.261	
	2006 - 2007	1001.00	627	53.831	680.831	
	2007 - 2008	1002.00	2175.2	1230.21	3405.45	
		23255.94	12248	9880.131	22128.06	

Source: Compiled based on information provided by special Deputy Collector, Singur Project



Resettlement and Rehabilitation Plan Approach Road - Physical Progress

Sl.no	Village	PAFs	Total Length Planned (in Km)	Constructed (in KM) as required	Status of work
1	Busareddypally	238	8.00	7.80	Completed
2	Malikarjunapally	791	1.70	1.70	Completed
3	Takkaddapally	101	1.90	1.86	Completed
4	Garlapally	219	1.20	1.07	Completed
5	Makthkyasaram	188	10.00	10.00	Completed
6	Betoor Kalapally	76	3.70	3.70	Completed
7	Kodur	133	2.60	2.60	Completed
8	Peopalpally	311	6.60	6.60	Completed
9	Atmlyal	179	2.00	2.00	Completed
10	Mortga	93	3.60	3.60	Completed
11	Mamidipally	169	1.00	1.00	Completed
12	Bogulampally	29	0.70	0.75	Completed
13	Manthur	169	8.30	8.28	Completed
14	Khadirabad	638	1.10	1.05	Completed
15	Osikapally	216	5.20	5.24	Completed
16	Nirllpla	174	1.10	1.09	Completed
17	Paladugu	105	2.30	2.30	Completed
18	Allapur	122	-	-	Not Required
19	Siroor	240	-	-	Not Required
20	Doulathabad	59	-	-	Not Required
21	Raipally	133	-	-	Not Required
22	Jangam Osirkapally	90	-	-	Not Required
23	Indoor	176	-	-	Not Required
24	Chkriyal	297	-	-	Not Required
25	Itikapally	219	0.40	0.40	Completed
26	Lonikurd	306	2.50	2.50	Completed
27	Peddireddipet	146	-	-	Not Required
28	Pulkurthy	256	-	-	Not Required
29	Bellapur	484	-	-	Not Required
Total		6357	63.90	63.54	



Resettlement and Rehabilitation Plan Internal Road - Physical Progress

Sl.no	Village	PAFs	No of Plots Planned	Total Length of Internal Roads Planned (In Km)	Works Completed (in Km)
1	Busareddypally	238	193	2.20	2.10
2	Allapur	122	67	0.80	0.78
3	Malikarjunapally	791	249	3.60	3.60
4	Takkaddapally	101	94	1.50	1.20
5	Garlapally	219	224	4.40	4.20
6	Makthkyasaram	188	174	4.60	2.20
7	Betoor Kalapally	76	168	2.20	1.30
8	Kodur	133	151	1.70	1.63
9	Siroor	240	133	5.85	3.85
10	Peddireddipally	311	73	1.10	1.10
11	Doulathabad	59	107	1.10	1.10
12	Raipally	133	191	3.00	2.60
13	Jangam Osirkapally	90	243	2.30	2.09
14	Atmlyal	179	260	2.90	2.80
15	Mortga	93	60	1.70	1.20
16	Mamidipally	169	222	3.10	2.64
17	Bogulampally	29	42	0.90	0.87
18	Indoor	176	134	2.80	2.80
19	Chkriyal	297	125	1.10	1.10
20	Manthur	169	249	5.20	4.60
21	Khadirabad	638	235	3.70	2.29
22	Osikapally	216	88	5.08	3.00
23	Nirllpla	174	352	4.10	3.43
24	Paladugu	105	111	1.50	1.47
25	Itikapally	219	-	2.75	2.75
26	Peddireddipet	146	-	2.00	2.00
27	Pulkurthy	256	-	2.60	2.60
28	Bellapur	484	-	5.85	2.85
29	Lonikurd	306	-	3.80	3.80
Total		6357	3945	83.43	67.95



Resettlement and Rehabilitation Plan Drinking Water - Physical Progress

Sl. No	Village	PAFs	No of Plots Planned	No of Bore wells to be provided	No of Borewells provided with Hand Pumps	Length of Pipeline (km)	No of Cisterns	Borewell Drilled (Yes / No)	Pump Installed and Commission (Yes / No)	Length of Pipeline laid (km)	No of Clisterns Installed
1	Busareddypally	238	193	5	5	1.30	10	Y	Y	1.04	8
2	Allapur	122	67	2	2	0.30	3	Y	Y	0.30	3
3	Malikarjunapally	791	249	4	5	1.08	8	Y	Y	0.99	8
4	Takkaddapally	101	94	3	3	0.35	4	N	Y	0.84	4
5	Garlapally	219	224	5	5	1.19	4	Y	Y	1.27	6
6	Makthkyasaram	188	174	4	4	0.61	4	Y	Y	0.61	4
7	Betoor Kalapally	76	168	4	4	0.35	7	Y	Y	0.31	5
8	Kodur	133	151	5	5	0.54	9	Y	Y	0.49	6
9	Siroor	240	133	6	6	3.30	10	Y	Y	2.00	7
10	Peddireddipally	311	73	1	1	1.00	4	N	Y	0.55	3
11	Doulathabad	59	107	3	3	0.80	4	Y	Y	0.37	4
12	Raipally	133	191	5	5	1.30	8	Y	Y	1.30	6
13	Jangam Osirkapally	90	243	2	2	1.35	5	Y	Y	0.68	5
14	Atmlyal	179	240	4	3	0.80	8	Y	Y	0.90	6
15	Moratga	93	80	3	3	0.40	4	Y	Y	0.30	3
16	Mamidipally	169	222	3	3	1.00	12	Y	Y	0.77	8
17	Bogulampally	29	42	3	3	0.30	4	Y	Y	0.25	2
18	Indoor	176	134	4	4	1.00	10	Y	Y	0.55	6
19	Chkriyal	297	125	2	2	1.25	3	Y	Y	1.20	2
20	Manthur	169	249	4	4	1.00	10	Y	Y	0.72	8
21	Khadirabad	638	235	5	5	1.00	12	Y	Y	1.00	10
22	Osikapally	216	88	4	4	1.41	14	N	Y	1.26	8
23	Nirllpla	174	352	6	8	1.70	18	Y	Y	1.06	14
24	Paladugu	105	111	2	2	0.92	8	Y	Y	0.91	8
25	Itikapally	219	-	3	2	-	8	N	N	-	-
26	Peddireddipet	146	-	3	2	-	8	N	N	-	-
27	Pulkurthy	256	-	3	3	-	8	Y	N	-	-
28	Bellapur	484	-	5	5	-	8	N	N	-	-
29	Lonikurd	306	-	3	3	-	8	Y	N	-	-
Total		6357	3945	106	106	24.25	223			19.67	144



Resettlement and Rehabilitation Plan Buildings - Physical Progress

Sl. no	Village	PAFs	Total Area (In Sq mts)	Buildings Constructed		
1	Busareddypally	238	347.60	1	School building	
				2	Community hall	
				3	Gram Panchayat	
2	Allapur	122	294.94	1	School building	
				2	Community hall	
3	Malikarjunapally	791	277.27	1	School building	GF
				2	Community hall	FF
			272.82	3	Library	
				4	Gram Panchayat	
4	Takkaddapally	101	294.84	1	School building	
				2	Community hall	
5	Garlapally	219	347.60	1	School building	
				2	Community hall	
				3	Gram Panchayat	
			89.360	4	Veterinary Hospital	
6	Makthkyasaram	188	208.30	1	Community hall	
				2	Gram Panchayat	
				3	Sub-Center (Health)	
7	Betoor Kalapally	76	347.80	1	School building	
				2	Community hall	
				3	Gram Panchayat	
8	Kodur	133	347.60	1	School building	
				2	Community hall	
				3	Gram Panchayat	
			99.36	4	Veterinary Hospital	
			126.84	5	Sub-Center (Health)	
9	Siroor	240	347.60	1	School building	
				2	Community hall	
				3	Gram Panchayat	
			99.36	4	Veterinary Hospital	
			126.84	5	Sub-Center (Health)	
10	Peopalpally	311	347.60	1	School building	



Resettlement and Rehabilitation Plan Buildings - Physical Progress

Sl. no	Village	PAFs	Total Area (In Sq mts)	Buildings Constructed		
				2	Community hall	
				3	Gram Panchayat	
11	Doulothabad	59	294.64	1	School building	
				2	Community hall	
12	Raipally	133	277.27	1	School building	GF
			272.82	2	Community hall	FF
				3	Library	
				4	Gram Panchayat	
13	Jangam Osirkapally	90	294.64	1	School building	
				2	Community hall	
14	Atmlyal	179	347.60	1	School building	
				2	Community hall	
				3	Gram Panchayat	
15	Mortga	93	294.64	1	School building	
				2	Community hall	
16	Mamidipally	169	347.60	1	School building	
				2	Community hall	
				3	Gram Panchayat	
17	Bogulampally	29	240.00	1	Community hall	
				2	Veterinary Hospital	
18	Indoor	176	340.00	1	School building	
				2	Gram Panchayat	
				3	Library	
19	Chkriyal	297	294.64	1	School building	
				2	Community hall	
20	Manthur	169	347.6	1	School building	
				2	Community hall	
				3	Gram Panchayat	
			99.36	4	Veterinary Hospital	
			126.84	5	Sub-Center (Health)	
21	Khadirabad	638	342.63	1	School building	GF
			370.47	2	Community hall	FF
				3	Gram Panchayat	



Resettlement and Rehabilitation Plan Buildings - Physical Progress

Sl. no	Village	PAFs	Total Area (In Sq mts)	Buildings Constructed		
				4	Library	
			99.08	5	Veterinary Hospital	
			126.84	6	Sub-Center (Health)	
22	Osikapally	216	294.64	1	School building	
				2	Community hall	
23	Nirllpla	174	339.65	1	School building	
				2	Community hall	
				3	Gram Panchayat	
24	Paladugu	105	294.64	1	School building	
				2	Community hall	
25	Itikapally	219	114.41	1	School building	
			61.40	2	Community hall	
			61.80	3	Gram Panchayat	
			65.14	4	Sub-Center (Health)	
			54.88	5	Veterinary Hospital	
26	Peddireddipet	146	-	-	-	
27	Pulkurthy	256	114.41	1	School building	
			81.40	2	Community hall	
			81.80	3	Gram Panchayat	
			65.16	4	Sub-Center (Health)	
28	Bellapur	484	114.81	1	School building	
			61.80	2	Community hall	
			61.80	3	Gram Panchayat	
			56.84	4	Veterinary Hospital	
			65.74	5	Sub-Center (Health)	
29	Lonikurd	306	111.81	1	School building	
			61.40	2	Community hall	
			61.80	3	Gram Panchayat	
Total		6357	10721.37			



Resettlement and Rehabilitation Plan Irrigation Borewells - Physical Progress

Sl. No	Village	Irrigation Borewells Planned	Survey and Drilling Details				No of Borewellds defunct collapsed	No of Borewells Electrified and Commissioned
			NO of Sites Surveyed	No of Sites Recommended	Total Borewells Drilling Completed (Nos)	Yield Adequate Nos		
1	Busareddypally	15	15	14	14	12	2	10
2	Allapur	9	9	8	8	8	-	6
3	Malikarjunapally	10	10	5	5	4	-	4
4	Takkaddapally	11	11	10	10	10	1	9
5	Garlapally	17	17	10	10	8	-	8
6	Makthkyasaram	12	12	5	5	1	-	1
7	Betoor Kalapally	5	5	3	3	1	-	1
8	Kodur	8	8	5	5	4	-	4
9	Siroor	11	7	5	5	3	1	2
10	Peddireddipally	2	2	-	-	-	-	-
11	Doulathabad	6	7	1	1	1	-	1
12	Raipally	18	7	1	1	1	-	1
13	Jangam Osirkapally	10	7	7	7	7	4	3
14	Atmlyal	10	10	-	-	-	-	-
15	Moratga	4	4	4	4	4	-	4
16	Mamidipally	13	13	10	10	9	1	8
17	Bogulampally	2	2	-	-	-	-	-
18	Indoor	10	10	5	5	6	-	6
19	Chkriyal	-	-	-	-	-	-	-
20	Manthur	27	27	11	11	11	-	11
21	Khadirabad	8	8	4	4	2	-	2
22	Osikapally	20	19	19	19	19	-	19
23	Nirrlpla	11	11	8	8	7	-	7
24	Paladugu	5	5	2	2	2	1	1
25	Itikapally	-	-	-	-	-	-	-
26	Peddireddipet	12	12	2	2	2	-	2
27	Pulkurthy	8	-	-	-	-	-	-
28	Bellapur	3	-	-	-	-	-	-
29	Lonikurd	-	-	-	-	-	-	-
Total		267	238	139	139	122	10	110



Process of Resettlement and Rehabilitation

Sl No	District	Mandal	Village	Informed Through				People's response		
				Letters / Notices	Public Announcement	Advertisement	Village Meetings	Positive	Negative	Mixed
1	Medak	Manoor	New Bellapur	14	17	9	24	3	17	5
2	Medak	Manoor	Pulukurthy	9	25	11	14	1	18	6
3	Medak	Munipalli	Beluru	15	Note :Sample 250 HH25	13	23	1	22	2
4	Medak	Munipalli	Marthakeswaram	14		17	14		24	1
5	Medak	Pulkal	Koduru	19	25	2	25	3	20	2
6	Medak	Pulkal	Singur	19	25	6	24	3	16	6
7	Medak	Raikode	Doulthabad	13	22	7	19		21	4
8	Medak	Raikode	Sirur	15	20	10	24	3	21	1
9	Medak	Regod	Nirjapla	19	5	3	23		24	1
10	Medak	Regod	Usirkapally	19	5	0	25		25	
			Total	156	177	78	215	14	208	28
			%	62.40	70.80	31.20	86.00	5.60	83.20	11.20

Note :Sample 250 HH



Usage of Compensation in the Rehabilitated Area

No. of HH

Sl No	District	Mandal	Village	Purchase of Agri Land	Construction of House	Purchase of Livestock	Improvement to Agri. Land	Establishment of New Business	Celebration of Marriages	Repayment of Loans	Purchase of HH Assets	Family Eductaion
1	Medak	Manoor	New Bellapur	3	20	3	1	0	5	8	1	3
2	Medak	Manoor	Pulukurthy	0	22	0	0	0	0	0	0	0
3	Medak	Munipalli	Beluru	0	25	3	1	0	12	0	6	1
4	Medak	Munipalli	Marthakeswaram	2	23	1	0	0	2	0	0	10
5	Medak	Pulkal	Koduru	6	20	11	8	0	8	8	9	9
6	Medak	Pulkal	Singur	8	23	5	3	2	5	4	3	4
7	Medak	Raikode	Doulthabad	7	25	1	0	1	0	1	0	0
8	Medak	Raikode	Sirur	3	24	6	1	2	6	2	1	5
9	Medak	Regod	Nirjapla	2	17	0	0	0	1	0	0	7
10	Medak	Regod	Usirkapally	1	21	0	0	0	0	0	0	1
			Total	32	220	30	14	5	39	23	20	40
			%	12.80	88.00	12.00	5.60	2.00	15.60	9.20	8.00	16.00



Annexure - III. 10

Usage of Compensation in the Rehabilitated Area

Sl No	District	Mandal	Village	Purchase of Agril Land	Construction of House	Purchase of Livestock	Improvement to Agril Land	Establishment of New Business	Celebration of Marriages	Repayment of Loans	Purchase Of HH Assests	Family Educaton	Total
1	Medak	Manoor	New Bellapur	150,000	1,338,000	34,000	2,000		239,000	150,000	20,000	21,000	1,954,000
2	Medak	Manoor	Pulukurthy		571,000								571,000
3	Medak	Munipalli	Beluru		521,000	6,000	2,000		56,000		11,500	1,000	597,500
4	Medak	Munipalli	Marthakeswaram	82,000	642,500	9,000			60,000			150,000	943,500
5	Medak	Pulkal	Koduru	324,000	557,000	159,500	197,000		221,000	202,000	195,000	64,000	1,919,500
6	Medak	Pulkal	Singur	58,300	893,500	44,000	75,000	40,001	155,000	70,000	53,000	10,000	1,398,801
7	Medak	Raikode	Doulthabad	177,000	701,000	10,000		10,000		10,000			908,000
8	Medak	Raikode	Sirur	85,000	1,047,000	46000	40,000	110000	740000	20,000	4000	36,000	2,128,000
9	Medak	Regod	Nirjapla	130,000	585,000				50000			147,800	912,800
10	Medak	Regod	Usirkapally	600,000	405,000							10,000	1,015,000
			Total	1,606,300	7261000	308,500	316000	160,001	1,521,000	452000	283,500	439800	12348101
			%	13.01	58.80	2.50	2.56	1.30	12.32	3.66	2.30	3.56	100.00



Annexure - III. 11

Process of Resettlement and Rehabilitation in the Rehabilitated Area

Sl No	District	Mandal	Village	Promises were made for resettlement												
				Land for Land	Promised Kept	Cash for Land	Promised Kept	Allotment of House site	Construction of House	Promised Kept	Facilities like road, electricity, health, education, etc.,	Skill Training	Promised Kept	Drinking Water Supply	Free Transport for Shifting	Overall Satisfaction
1	Medak	Manoor	New Bellapur			24	4	23			23			21	4	3
2	Medak	Manoor	Pulukurthy	11	0	18	3	23	5	5	18	13	0	19	14	2
3	Medak	Munipalli	Beluru	16	0	25	9	25	1	1	25	5	0	22	3	4
4	Medak	Munipalli	Marthakeswaram			25	8	14			9	5	0	17		2
5	Medak	Pulkal	Koduru	20	0	25	3	23	1	1	23	1	0	24	1	1
6	Medak	Pulkal	Singur	4	0	22	11	6			23	1	0	23	1	1
7	Medak	Raikode	Doulthabad	7	0	24	8	22	5	5	23	5	1	21	5	5
8	Medak	Raikode	Sirur	5	0	24	12	21	1	1	20	2	1	13	1	3
9	Medak	Regod	Nirjapla	1		24	7	12			5	2	1	10		0
10	Medak	Regod	Usirkapally			25	4	22			1			17		3
			Total	64	0	236	69	191	13	13	170	34	3	187	29	24
			%	25.60		94.40		76.40	5.20		68.00	13.60		74.80	11.60	9.60

Note :Sample 250 HH



Annexure - III. 12

Difficulties faced in Process of Resettlement and Rehabilitation in the Rehabilitated Area

Sl No	District	Mandal	Village	Difficulties faced in getting the compensation and fulfilling the assurances						Yet to get part of compensation
				Not a Smooth Transaction	Harassed in paying compensation	Lot of delays in paying compensation	All Promises made were not kept	Full compensation not received	Rehabilitated area not fully developed	
1	Medak	Manoor	New Bellapur	24	22	22	17	4	4	1
2	Medak	Manoor	Pulukurthy	16	15	11	16	6	15	5
3	Medak	Munipalli	Beluru	23	16	32	17	4	18	
4	Medak	Munipalli	Marthakeswaram	24	4	23	23	1	4	4
5	Medak	Pulkal	Koduru	22	24	24	25	25	24	1
6	Medak	Pulkal	Singur	25	25	24		2		1
7	Medak	Raikode	Doulthabad	15	13	13	14	3	8	2
8	Medak	Raikode	Sirur	18	15	17	19	3	8	1
9	Medak	Regod	Nirjapla	23	14	22	21	1	1	1
10	Medak	Regod	Usirkapally	23	22	22	24	2	2	1
			Total	213	170	210	176	51	84	17
			%	85.20	68.00	84.00	70.40	20.40	33.60	6.80

Note :Sample 250 HH



Annexure - III. 13

Satisfaction in respect of Facilities Extended in the Rehabilitated Area center

Sl No	District	Mandal	Village	Roads	Schools	Drinking Water (Tape Water)	Electricity	Street Lights	PDS Distribution	Community Hall	Veterinary Hospital	Public Health Centers	Govt Dispensary	Panchayat Building	Anganwadi Center
				Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Usage	Usage	Satisfactory
1	Medak	Manoor	New Bellapur	25	25	11	22	15	25	11	2			2	25
2	Medak	Manoor	Pulukurthy	25	25	19	23	10	24	19				25	25
3	Medak	Munipalli	Beluru	25	25	25	25	25	25	21			1	25	25
4	Medak	Munipalli	Marthakeswaram	25	25		5	24	25		3			4	24
5	Medak	Pulkal	Koduru	25	25	24	24	24	25	18				24	25
6	Medak	Pulkal	Singur	12	25	24	25	25	25	25	17	1		20	24
7	Medak	Raikode	Doulthabad	20	24	8	24	9	24	17			1	17	25
8	Medak	Raikode	Sirur	25	25	12	22	22	25	11	15	1	2	11	25
9	Medak	Regod	Nirjapla	25	25	1	25	25	24					7	25
10	Medak	Regod	Usirkapally	25	25	1	3	25	23					19	23
			Total	232	249	125	198	204	245	122	37	2	4	154	246
			%	92.80	99.60	50.00	79.20	81.60	98.00	48.80	14.80	0.80	1.60	61.60	98.40

Note :Sample 250 HH



Annexure - III. 14

Details of Sample Household Partially Affected Sample Households whose lands have been acquired

No. of HH

Sl. No	District	Mandal	Village	Having Irrigated Land	Acquired Irrigated Land	Having Rainfed land	Acquired Rainfed land	Having Rainfed Land	Acquired Rainfed Land	Total Holding	Total Acquired
1	Medak	Manoor	Badalgam	2	2	9	9	2	2	10	10
2	Medak	Munipally	Cheelapalli	5	5	6	6	1	1	10	10
3	Medak	Pulkal	Pulkal	1	1	9	9			10	10
4	Medak	Raikode	Pampad	6	6	6	6			10	10
5	Medak	Raikode	Shapoor			10	10			10	10
6	Medak	Regod	Tattiaplly	7	7	3	3			10	10
			Total	21	21	43	43	3	3	60	60
			%	35.00	35.00	71.67	71.67	5.00	5.00	100.00	100.00

Note: Sample 60 HH



Annexure - III. 15

Details of Land Acquisition of Partially Affected Households

Sl. No	District	Mandal	Village	Having Irrigated Land	Acquired Irrigated Land	Having Rainfed land	Acquired Rainfed land	Having Rainfed Land	Acquired Rainfed Land	Area in ha		
										Having Total Irrigated and Rainfed Land	Total Land Acquired	% Acquired
1	Medak	Manoor	Badalgam	2.02	2.02	18.89	9.72	4.05	4.05	24.96	15.79	63.3
2	Medak	Munipally	Cheelapalli	7.09	3.64	5.26	2.63	0.40	0.40	12.75	6.68	52.4
3	Medak	Pulkal	Pulkal	1.62	0.81	34.41	13.97	0.00	0.00	36.03	14.78	41.0
4	Medak	Raikode	Pampad	24.32	23.60	88.26	45.34	0.00	0.00	112.58	68.94	61.2
5	Medak	Raikode	Shapoor	0.00	0.0	11.71	5.93	0.00	0.00	11.71	5.93	50.7
6	Medak	Regod	Tattiaplly	23.89	9.07	16.19	8.1	0.00	0.00	40.08	17.17	42.8
			Total	58.94	39.14	174.73	85.69	4.45	4.45	238.12	129.28	54.3
			%		66.4		49.0		100.0		54.3	

Note: Sample 60 HH



Annexure - III. 16

Utilization of Compensation by the Partially Affected Households

No. of HH

Sl No	District	Mandal	Village	Purchase of Agri Land	Repairs / Construction of House	Purchase of Livestock	Improvement to Agri. Land	Establishment of New Business	Celebration of Marriages/ Functions	Repayment of Loans	Purchase of HH Assets	Family Education
1	Medak	Manoor	Badalgam	3	5	1	1		3	2		2
2	Medak	Munipally	Cheelapalli	1	8	4	3		1	1	3	3
3	Medak	Pulkal	Pulkal	2	8	7	6		6	3	6	7
4	Medak	Raikode	Pampad	1	5	1	2	1	5	4		5
5	Medak	Raikode	Shapoor		3	4	1	1	2	3	1	3
6	Medak	Regod	Tattipally		7		1		1			3
			Total	7	36	17	14	2	18	13	10	23
			%	11.67	60.00	28.33	23.33	3.33	30.00	21.67	16.67	38.33

Note :Sample 60 HH



Annexure - III. 17

Utilisation of Compensation Amount by the Partially Affected Households

Sl No	District	Mandal	Village	Purchase of Agri Land	Repairs / Construction of House	Purchase of Livestock	Improvement to Agri. Land	Establishment of New Business	Celebration of Marriages / Functions	Repayment of Loans	Purchase of HH Assets	Family Education	Total
1	Medak	Manoor	Badalgam	2,000	167,000	4,000	2,000		57,000	20,000		20,000	272,000
2	Medak	Munipally	Cheelapalli	60,000	280,000	74,000	55,000		35,000	15,000	68,000	8,000	595,000
3	Medak	Pulkal	Pulkal	150,000	535,000	55,000	179,000		452,000	85,000	140,000	92,500	1,688,500
4	Medak	Raikode	Pampad	100,000	325,000	12,000	100,000	120,000	315,000	165,000		125,000	1,262,000
5	Medak	Raikode	Shapoor		75,000	41,000	10,000	40,000	40,000	27,000	20,000	10,000	263,000
6	Medak	Regod	Tattipally		210,000		50,000		10,000			60,000	330,000
			Total	312,000	1592000	186,000	396000	160,000	909,000	312000	228,000	315500	4410500
			%	7.07	36.10	4.22	8.98	3.63	20.61	7.07	5.17	7.15	100.00

Note :Sample 60 HH



Annexure IV.1

Education Institutions and Strengthening Teachers/Students in Medak District

Sl. No	Particulars	Pre-Project (1989-90)	Post- Project (2007-08)	% Increase / Decrease
1	No of Primary Schools	1415	1933	36.6
2	No of Teachers in Primary schools	2643	9685	266.4
	a) Male	2366	5544	134.3
	b) Female	277	4141	1394.9
3	Enrollment of Students	NA	297323	NA
4	Students / Teacher Ratio	NA	30:1	NA
5	No of students in Upper Primary schools	217	537	147.5
6	No of Teachers in Upper Primary schools	1272	6949	446.3
	a) Male	1159	4448	283.8
	b) Female	113	2529	2138.1
7	Enrollment of Students	NA	102228	NA
8	Students / Teacher Ratio	NA	15:1	NA
9	No of Students in High School	173	683	294.8
10	No of Teachers in High School	2371	9275	291.2
	a) Male	1936	6035	211.7
	b) Female	435	3240	644.8
11	Enrollment of Students	NA	119373	NA
12	Students / Teacher Ratio	NA	13:1	NA
13	No of Students in Junior College	19	116	510.5
14	No of Lecturers in Junior College	NA	1121	NA
	a) Male	NA	947	NA
	b) Female	NA	174	NA
15	Students Enrollment in Junior Colllge	NA	20900	NA
16	Students / Lecturer Ratio	NA	NA	NA
17	Degree Colleges	6	40	566.7
18	Post Graduation	Nill	4	NA

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.2

Status of Schools / Teaching staff and students in Project mandals.

Sl. No	Particulars	Pulkhal			Munipalle			Regode			Raikode			Nyalkal			Manoor		
		Pre-Project (1989-90)	Post-Project (2007-08)	% Increase	Pre-Project (1989-90)	Post-Project (2007-08)	% Increase	Pre-Project (1989-90)	Post-Project (2007-08)	% Increase	Pre-Project (1989-90)	Post-Project (2007-08)	% Increase	Pre-Project (1989-90)	Post-Project (2007-08)	% Increase	Pre-Project (1989-90)	Post-Project (2007-08)	% Increase
1	No of Primary Schools	28	34	21	29	30	3.4	27	27	0	30	32	7	36	51	42	43	65	51
2	No of Teachers	91	177	94	58	146	152	45	109	142	37	84	127	75	144	92	73	219	200
3	No of Upper primary schools	4	18	350	4	18	350	1	8	700	3	14	367	3	12	300		14	100
4	No of Teachers	32	141	341	15	47	213	7	47	571	13	118	808	13	140	977		128	100
5	No of High Schools	4	12	200	2	12	500	3	6	100	1	7	600	3	7	133	3	6	100
6	No of Teachers	50	134	168	42	132	214	41	73	78	16	56	250	49	81	65	24	56	133

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.3

Literacy Rate of Medak District

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post-Project (2007-08)	Absolute Increase	% Increase
1	Total Literates	In Lakhs	3.89	11.71	7.82	201.03
a)	Male	In Lakhs	2.92	7.38	4.46	152.74
b)	Female	In Lakhs	0.97	4.33	3.36	346.39
2	Total Literacy Rate	% to Total Population	21.52%	43.85%	22.33%	
a)	Male		32%	54.58%	22.58%	
b)	Female		10.90%	32.87%	21.97%	

Note: Literated Exclude children in the age group of 0.6 years

Source: Compiled from Hand Book of Statistics, Medak District

Medak District total population

	Before	After
Total	1807139	2670097
Male	911868	1352446
Female	895271	1317651

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.4

Literacy Rate of Pulkal Mandal

Sl. No	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Absolute Increase	% Increase
1	Total Literates	In thousand	6.08	18.55	12.47	205
a)	Male	In thousand	4.96	12.38	7.42	150
b)	Female	In thousand	1.12	6.17	5.05	451
2	Total Literacy Rate	% to Total Population (38,429)	15.82%	44.42%	28.60%	
a)	Male	19,296	25.70%	58.10%	32.40%	
b)	Female	19,133	5.85%	30.17%	24.30%	

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.5

Literacy Rate of Muniapalle Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Absolute Increase	% Increase
1	Total Literates	In thousands	4.473	14.875	10.402	232.55
a)	Male	In thousands	3.771	9.777	6.006	159.27
b)	Female	In thousands	0.702	5.098	4.396	626.21
2	Total Literacy Rate	% to Total Population (27,749)	16.11%	47.98%	31.87%	
a)	Male	13,956	27.02%	61.53%	34.51%	
b)	Female	13,793	5.08%	33.73%	28.65%	

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.6

Literacy Rate of Regode Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Absolute Increase	% Increase
1	Total Literates	In thousands	3.368	10.269	6.901	205
a)	Male	In thousands	2.896	7.016	4.12	142
b)	Female	In thousands	0.472	3.253	2.781	589
2	Total Literacy Rate	% to Total Population (23,246)	14.48%	37.25%	22.77%	
a)	Male	11,796	24.55%	50.11%	25.56%	
b)	Female	11,450	4.12%	23.97%	19.85%	

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.7

Literacy Rate of Raikode Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Absolute Increase	% Increase
1	Total Literates	In thousands	3.46	13.28	9.82	283
a)	Male	In thousands	2.89	8.62	5.73	198
b)	Female	In thousands	0.57	4.66	4.09	717
2	Total Literacy Rate	% to Total Population (26,129)	26.28%	42.02%	15.74	
a)	Male	13,119	22.02%	53.20%	31.18	
b)	Female	13,010	4.39%	30.27%	25.88	

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.8

Literacy Rate of Nyalkal Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Absolute Increase	% Increase
1	Total Literates	In thousands	5.55	20.91	15.36	276
a)	Male	In thousands	4.46	12.94	8.48	190
b)	Female	In thousands	1.09	7.97	6.88	631
2	Total Literacy Rate	% to Total Population (36,887)	15.04%	46.61%	31.57%	
a)	Male	18,523	24.07%	57.21%	33.14%	
b)	Female	18,364	5.94%	35.82%	29.88%	

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.9

Literacy Rate of Manoor Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Absolute Increase	% Increase
1	Total Literates	In thousands	4.650	14.980	5.68	122
a)	Male	In thousands	3.914	10.201	6.287	160
b)	Female	In thousands	0.736	4.779	4.043	549
2	Total Literacy Rate	% to Total Population (35,045)	13.26%	34.57%	21.31	
a)	Male	17,742	26.20%	45.76%	19.56	
b)	Female	17,303	4.25%	22.85%	18.60	

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.10

Comparison of Literacy Rates in Project and Non-Project Mandals

Sl.NO	Particulars	Units	Number of Literates in Project Mandals			Number of Literates in Non- Project Mandals			% Increase	
			Before Project	After Project	Increase / Decrease	Before Project	After Project	Increase/Decrease	Project	Non-Project
1	Total Literates	In lakhs	0.27584	0.92866	0.65	3.61416	10.7827	7.1685	235.64	198.34
a)	Male	In lakhs	0.2289	0.60933	0.38	2.69110	6.77275	4.0816	166.01	151.67
b)	Female	In lakhs	0.04694	0.31933	0.27	0.50060	4.0086	3.5083	575.20	700.81
2	Total Literacy Rate	% to Total Polulation (1,87,460)	14.70%	35.44%	20.74	22.31	44.78%	22.47%		
a)	Male	94,410	24.24%	45.52%	21.28	32.92%	55.57%	22.65%		
b)	Female	93,050	5.04%	24.89%	24.43	6.24%	33.71%	27.47%		

Source: Compiled from Hand Book of Statistics, Medak District

Note: Total population is taken from annexure IV.18 for calculation.



Annexure IV.11

Demographic particulars of Medak District

Sl.NO	Particulars	Units	Pre-Project (1989-90)	Post – Project (2007-08)	% Increase / Decrease
1	Total Population	In Lakhs	18.07	26.7	48
a)	Male	In Lakhs	9.12	13.52	48
b)	Female	In Lakhs	8.95	13.18	47
2	Sex Ratio	Female to Male per Thousand	981	974	-1
3	SC population	In Lakhs	3.1	4.69	51
a)	Males	In Lakhs	1.56	2.36	51
b)	Female	In Lakhs	1.54	2.33	51
4	ST population	In Lakhs	0.68	1.35	99
a)	Male	In Lakhs	0.33	0.69	109
b)	Female	In Lakhs	0.35	0.66	89
5	Urban Population	In Lakhs	2.16	3.83	77
6	Rural Population	In Lakhs	15.9	22.87	44
7	Density of Population	Per Sq.Km	189	274	45

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.12

Demographic Particulars of Pulkal Mandal

Sl.NO	Particulars	Units	Pre - Project (1989-90)	Post - Project (2007-08)	% Increase / Decrease
1	Total Population	In thousands	38.42	48.55	26
a)	Male	In thousands	19.29	24.75	28
b)	Female	In thousands	19.13	23.81	24
2	Sex Ratio	Female to Male per Thousand	991	961	-3
3	SC population	In thousands	8.55	11.06	29
a)	Male	In thousands	4.24	5.68	34
b)	Female	In thousands	4.31	5.38	25
4	ST population	In thousands	1.89	3.5	85
a)	Male	In thousands	0.96	1.85	93
b)	Female	In thousands	0.93	1.65	77
5	Urban Population	In thousands	0	0	
6	Rural Population	In thousands	38.42	48.55	26
7	Density of Population	Per Sq.Km	156	198	27

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.13

Demographic Particulars of Munipalle Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	Total Population	In thousands	27.75	36.58	32
a)	Male	In thousands	13.96	18.76	34
b)	Female	In thousands	13.79	17.82	29
2	Sex Ratio	Female to Male per Thousand	987	949	-4
3	SC population	In thousands	6.58	8.42	28
a)	Male	In thousands	3.29	4.37	33
b)	Female	In thousands	3.29	4.05	23
4	ST population	In thousands	0.08	0.149	86
a)	Male	In thousands	0.042	0.081	93
b)	Female	In thousands	0.038	0.068	79
5	Urban Population	In thousands	NIL	NIL	NIL
6	Rural Population	In thousands	27.75	36.58	32
7	Density of Population	Per Sq.Km	137	181	32

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.14

Demographic Particulars of Regode Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	Total Population	In thousands	23.25	33.06	42
a)	Male	In thousands	11.79	16.78	42
b)	Female	In thousands	11.46	16.28	42
2	Sex Ratio	Female to Male per Thousand	972	970	-0.21
3	SC population	In thousands	5.08	7.81	54
a)	Male	In thousands	2.64	3.96	50
b)	Female	In thousands	2.44	3.85	58
4	ST population	In thousands	0.97	2.41	148
a)	Male	In thousands	0.49	1.24	153
b)	Female	In thousands	0.48	1.17	144
5	Urban Population	In thousands	NIL	NIL	NIL
6	Rural Population	In thousands	23.25	33.06	42
7	Density of Population	Per Sq.Km	153	217	42

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.15

Demographic Particulars of Raikode Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	Total Population	In thousands	26.12	37.26	43
a)	Male	In thousands	13.11	19.12	46
b)	Female	In thousands	13.01	18.14	39
2	Sex Ratio	Female to Male per Thousand	992	948	-4
3	SC population	In thousands	4.44	7.75	75
a)	Male	In thousands	2.24	3.96	77
b)	Female	In thousands	2.19	3.78	73
4	ST population	In thousands	0.09	0.19	111
a)	Male	In thousands	0.05	0.09	80
b)	Female	In thousands	0.04	0.09	125
5	Urban Population	In thousands	NIL	NIL	NIL
6	Rural Population	In thousands	26.12	37.26	43
7	Density of Population	Per Sq.Km	122	128	5

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.16

Demographic Particulars of Nyalkal Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	Total Population	In thousands	36.88	53.72	46
a)	Male	In thousands	18.52	27.09	46
b)	Female	In thousands	18.32	26.62	45
2	Sex Ratio	Female to Male per Thousand	991	982	-1
3	SC population	In thousands	0.48	12.22	2446
a)	Male	In thousands	0.23	6.17	2583
b)	Female	In thousands	0.24	6.04	2417
4	ST population	In thousands	0.36	0.56	56
a)	Male	In thousands	0.18	0.27	50
b)	Female	In thousands	0.18	0.29	61
5	Urban Population	In thousands	NIL	NIL	NIL
6	Rural Population	In thousands	36.88	53.72	46
7	Density of Population	Per Sq.Km	147	212	44

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.17

Demographic Particulars of Manoor Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	Total Population	In thousands	35.04	52.83	51
a)	Male	In thousands	17.74	27.19	53
b)	Female	In thousands	17.3	25.63	48
2	Sex Ratio	Female to Male per Thousand	975	942	-3
3	SC population	In thousands	6.74	10.93	62
a)	Male	In thousands	3.42	5.6	64
b)	Female	In thousands	3.32	5.33	61
4	ST population	In thousands	2.57	6.46	151
a)	Male	In thousands	1.13	3.39	200
b)	Female	In thousands	1.44	3.07	113
5	Urban Population	In thousands	NIL	NIL	NIL
6	Rural Population	In thousands	35.04	52.83	51
7	Density of Population	Per Sq.Km	119	170	43

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.18

Comparison of Demography in Project and Non-Project Mandals

Sl.NO	Particulars	Units	Total of All Project Mandals			Total of All Non-Project Mandals		
			Before Project	After Project	Increase / Decrease	Before Project	After Project	Increase / Decrease
1	Total Population	In Thousands	187460	261990	40	1619540	2408000	49
a)	Male	In Thousands	94410	133690	42	817590	1218310	49
b)	Female	In Thousands	93050	128300	38	801950	1189700	48
2	Sex Ratio	Female to Male per Thousand	986	960	-3	981	977	-4
3	SC population	In Thousands	31870	58190	83	278130	410810	48
a)	Male	In Thousands	16060	29740	85	139920	206260	47
b)	Female	In Thousands	15790	28430	80	138210	204570	48
4	ST population	In Thousands	5960	13269	123	62040	121731	96
a)	Male	In Thousands	28520	6921	-76	4480	62079	1286
b)	Female	In Thousands	31080	6338	-80	3920	59662	1422
5	Urban Population	In Thousands	0	0	0	217000	383000	76
6	Rural Population	In Thousands	187460	262000	40	1571254	2025000	29
7	Density of Population	Per Sq.Km (782)	138	188	36	190	253	33

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.19

Occupational Details of Medak District

Sl.No	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase
1	Total Workers	Nos.	809424	1292437	60
a)	Male	Nos.	526372	748598	42
b)	Female	Nos.	283052	543839	92
2	Cultivators	Nos.	366628	394247	8
a)	Male	Nos.	264717	254628	-4
b)	Female	Nos.	101911	139619	37
3	Agricultural Laborers	Nos.	258822	480133	86
a)	Male	Nos.	112539	204996	82
b)	Female	Nos.	146283	275137	88
4	Workers in House hold Industry	Nos.	27404	53549	95
a)	Male	Nos.	13509	19227	42
b)	Female	Nos.	13895	34322	147
5	Other Workers	Nos.	143570	364518	154
a)	Male	Nos.	122607	269757	120
b)	Female	Nos.	20963	94761	352

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.20

Occupational Details of Pulkal Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase
1	Total Workers	Nos.	17756	25037	41
a)	Male	Nos.	10240	14099	38
b)	Female	Nos.	7516	10938	46
2	Cultivators	Nos.	8302	8302	0
a)	Male	Nos.	6354	5732	-10
b)	Female	Nos.	1948	2570	32
3	Agricultural Laborers	Nos.	8745	12951	48
a)	Male	Nos.	3451	5383	56
b)	Female	Nos.	5294	7568	43
4	Workers in House hold Industry	Nos.	392	361	-8
a)	Male	Nos.	317	244	-23
b)	Female	Nos.	75	117	56
5	Other Workers	Nos.	2114	3423	62
a)	Male	Nos.	1715	2740	60
b)	Female	Nos.	399	683	71

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.21

Occupational Details of Muniipalle Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase
1	Total Workers	Nos.	12924	17450	35
a)	Male	Nos.	8518	10393	22
b)	Female	Nos.	4406	7057	60
2	Cultivators	Nos.	5900	5895	-0.08
a)	Male	Nos.	4684	4083	-13
b)	Female	Nos.	1216	1812	49
3	Agricultural Laborers	Nos.	4899	8340	70
a)	Male	Nos.	2149	3725	73
b)	Female	Nos.	2750	4615	68
4	Workers in House hold Industry	Nos.	392	396	1
a)	Male	Nos.	307	169	-45
b)	Female	Nos.	85	227	167
5	Other Workers	Nos.	1733	2819	63
a)	Male	Nos.	1378	2416	75
b)	Female	Nos.	353	403	14

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.22

Occupational Details of Regode Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase
1	Total Workers	Nos.	10938	16632	52
a)	Male	Nos.	6902	9328	35
b)	Female	Nos.	4036	7304	81
2	Cultivators	Nos.	5261	4892	-7
a)	Male	Nos.	3707	3075	-17
b)	Female	Nos.	1554	1817	17
3	Agricultural Laborers	Nos.	4264	8776	106
a)	Male	Nos.	1984	3960	100
b)	Female	Nos.	2280	4816	111
4	Workers in House hold Industry	Nos.	390	404	4
a)	Male	Nos.	333	245	-26
b)	Female	Nos.	57	159	179
5	Other Workers	Nos.	1022	2560	150
a)	Male	Nos.	877	2048	134
b)	Female	Nos.	145	512	253

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.23

Occupational Details of Raikode Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase
1	Total Workers	Nos.	11941	17876	50
a)	Male	Nos.	7876	10599	35
b)	Female	Nos.	40658	7577	79
2	Cultivators	Nos.	3930	5710	45.29
a)	Male	Nos.	3262	3982	22
b)	Female	Nos.	668	1728	159
3	Agricultural Laborers	Nos.	6534	9742	49
a)	Male	Nos.	3367	4746	41
b)	Female	Nos.	3167	4996	58
4	Workers in House hold Industry	Nos.	354	433	22
a)	Male	Nos.	292	227	-22
b)	Female	Nos.	62	206	232
5	Other Workers	Nos.	1200	1991	66
a)	Male	Nos.	1131	1644	45
b)	Female	Nos.	168	347	107

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.24

Occupational Details of Nyalkal Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase
1	Total Workers	Nos.	16948	26078	54
a)	Male	Nos.	11036	14896	35
b)	Female	Nos.	5912	11182	89
2	Cultivators	Nos.	5747	7425	29
a)	Male	Nos.	4525	4606	2
b)	Female	Nos.	1222	2819	131
3	Agricultural Laborers	Nos.	8932	14401	61
a)	Male	Nos.	4544	7289	60
b)	Female	Nos.	4388	7112	62
4	Workers in House hold Industry	Nos.	487	862	77
a)	Male	Nos.	368	355	-4
b)	Female	Nos.	119	507	326
5	Other Workers	Nos.	1772	3393	91
a)	Male	Nos.	1589	2649	6
b)	Female	Nos.	183	744	306.56

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.25

Occupational Details of Manoor Mandal

Sl.NO	Particulars	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase
1	Total Workers	Nos.	14972	24905	68
a)	Male	Nos.	10512	14552	38
b)	Female	Nos.	4280	10353	142
2	Cultivators	Nos.	6042	7838	30
a)	Male	Nos.	5049	5114	1
b)	Female	Nos.	993	5724	174
3	Agricultural Laborers	Nos.	6960	14145	103
a)	Male	Nos.	3912	7123	82
b)	Female	Nos.	3048	7013	130
4	Workers in House hold Industry	Nos.	365	393	8
a)	Male	Nos.	300	211	-30
b)	Female	Nos.	65	182	180
5	Other Workers	Nos.	1425	2529	77
a)	Male	Nos.	1251	2095	67
b)	Female	Nos.	174	434	149.43

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.26

Comparison of Occupations in Project and Non-Project Area

Sl. NO	Particulars	Units	Total of All Project Mandals			Total of Non - Project Mandals		
			Before Project	After Project	% Increase / Decrease	Before Project	After Project	% Increase / Decrease
1	Total Workers	In Numbers	85299	127978	50	724125	1164459	61
a)	Male	In Numbers	55084	73867	34	471288	674731	43
b)	Female	In Numbers	30215	54181	79	252837	496861	97
2	Cultivators	Female to Male per Thousand	35182	40062	14	331446	354185	7
a)	Male	In Numbers	27581	26592	-4	237136	228036	-4
b)	Female	In Numbers	7601	13470	77	94310	126149	34
3	Agricultural Laborers		40334	68355	69	218488	411778	88
a)	Male	In Numbers	19407	32226	66	93132	172770	86
b)	Female	In Numbers	20927	36120	73	125356	239017	91
4	Workers in Household Industry		2380	2849	20	25024	50700	103
a)	Male	In Numbers	1917	1451	-24	11592	17776	53
b)	Female	In Numbers	463	1398	202	13432	32924	145
5	Other workers	In Numbers	9266	16715	80	134304	347803	159
a)	Male	In Numbers	7941	13592	71	114666	256165	123
b)	Female	In Numbers	1422	3123	120	19541	91638	369

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.27

Details of Immunization Programs

Sl. No	Name of the District/Mandal	Pre-project (1989 -90)					Post-project (2007 -08)			
		Measels	TT	DPT	OPV	BCG	Polio	DPT	BCG	Measels
1	Medak District	28537	27295	29129	27865	36010	54845	54845	57186	54186
2	Pulkal Mandal	582	Nil	370	370	970	1072	1038	822	972
3	Munipalle	119	126	296	296	373	672	672	721	848
4	Regode	Nil	Nil	Nil	Nil	Nil	579	579	602	486
5	Raikode Mandal	307	149	59	59	57	782	782	822	772
6	Nyalkal Mandal	2846	660	1544	1544	1167	1269	1269	1182	1301
7	Manoor Mandal	269	536	441	441	188	1161	1161	1182	1022

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.28

Details of Medical Facilities of Medak District

Sl.NO	Particulars	Units	Pre-project (1989-90)		Post-project (2007-08)		% Increase	
1	Allopathy	Nos.	Govt .	PHC	Govt	PHC	Govt.	PHC
a)	Total No	Nos.	11	48	10	65	-9	35
b)	No of Doctors	Nos.	74	70	70	146	-5	109
c)	Beds	Nos.	617	206	617	849	0	312
d)	No of Patients Treated	Nos.	NA	NA	2188359		NA	NA
2	Homeopathy	Nos.	NA	NA	11	NA	NA	NA
a)	No of Doctors	Nos.	0	0	11	NA	NA	NA
b)	No of Patients Treated	Nos.	NA	NA	1,43,383		NA	NA
3	Ayurvedic	Nos.	0	0	25	0	NA	NA
a)	No of Doctors	Nos.	0	0	25	0	NA	NA
b)	No of Patients Treated	Nos.	NA	NA	3,81,245		NA	NA
4	Unani	Nos.	0	0	9	0	NA	NA
a)	No of Doctors	Nos.	0	0	5	0	NA	NA
b)	No of Patients Treated	Nos.	NA	NA	1,27,348		NA	NA

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.29

Details of Medical Facilities Pulkal Mandal

Sl. NO	Particulars	Units	Pre-project (1989-90)		Post-project (2007-08)		% Increase	
			Govt.	PHC	Govt.	PHC	Govt.	PHC
1	Allopathy	Nos.						
a)	PHC's	Nos.	0	1	0	1	0	0
b)	No of Doctors	Nos.	0	2	0	2	0	0
c)	Beds	Nos.	0	6	0	2	0	-67
d)	No of Patients Treated	Nos.	NA	NA	12850		0	0
2	Homeopathy	Nos.						
a)	No of Doctors	Nos.	0	0	0	0	0	0
b)	No of Patients Treated	Nos.	0	0	0	0	0	0
3	Ayurvedic	Nos.						
a)	No of Doctors	Nos.	0	0	1	0	0	0
b)	No of Patients Treated	Nos.	0	0	13650		0	0
4	Unani	Nos.						
a)	No of Doctors	Nos.	0	0	0	0	0	0
b)	No of Patients Treated	Nos.	0	0	0	0	0	0

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.30

Details of Medical Facilities Munipalle Mandal

Sl. NO	Particulars	Units	Pre-project (1989-90)		Post-project (2007-08)		% Increase	
			Govt.	PHC	Govt.	PHC	Govt.	PHC
1	Allopathy	Nos.						
a)	PHC's	Nos.	Nil	1	Nil	1	0	0
b)	No of Doctors	Nos.	Nil	1	Nil	2	0	100
c)	Beds	Nos.	Nil	2	Nil	2	0	0
d)	No of Patients Treated	Nos.	Nil		Nil	8985		0
2	Homeopathy	Nos.	Nil	Nil	Nil	Nil	0	0
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil	0	0
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil	0	0
3	Ayurvedic	Nos.	Nil	Nil	Nil	Nil	0	0
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil	0	0
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil	0	0
4	Unani	Nos.	Nil	Nil	Nil	Nil	0	0
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil	0	0
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil	0	0

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.31

Details of Medical Facilities Regode Mandal

Sl.NO	Particulars	Units	Pre-project (1989-90)		Post-project (2007-08)		% Increase	
1	Allopathy	Nos.	Govt.	PHC	Govt.	PHC	Govt.	PHC
a)	PHC's	Nos.	Nil	1	Nil	1	0	0
b)	No of Doctors	Nos.	Nil	1	Nil	2	0	100
c)	Beds	Nos.	Nil	2	Nil	2	0	0
d)	No of Patients Treated	Nos.	Nil	Nil	15605		0	
2	Homeopathy	Nos.	Nil	Nil	Nil	Nil	0	0
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil	0	0
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil	0	0
3	Ayurvedic	Nos.	Nil	Nil	Nil	Nil	0	0
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil	0	0
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil	0	0
4	Unani	Nos.	Nil	Nil	Nil	Nil	0	0
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil	0	0
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil	0	0

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.32

Details of Medical Facilities Raikode Mandal

Sl.NO	Particulars	Units	Pre-project (1989-90)		Post-project (2007-08)		% Increase	
			Govt.	PHC	Govt.	PHC	Govt.	PHC
1	Allopathy	Nos.						
a)	PHC's	Nos.	Nil	1	Nil	1		0
b)	No of Doctors	Nos.	Nil	1	Nil	1		0
c)	Beds	Nos.	Nil	2	Nil	2		0
d)	No of Patients Treated	Nos.	NA	NA	NA	12650		
2	Homeopathy	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		
3	Ayurvedic	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		
4	Unani	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.33

Details of Medical Facilities Nyalkal Mandal

Sl.NO	Particulars	Units	Pre-project (1989-90)		Post-project (2007-08)		% Increase	
			Govt.	PHC	Govt.	PHC	Govt.	PHC
1	Allopathy	Nos.						
a)	PHC's	Nos.	Nil	2	Nil	2		0
b)	No of Doctors	Nos.	Nil	3	Nil	2		-33.33
c)	Beds	Nos.	Nil	8	Nil	2		-75
d)	No of Patients Treated	Nos.	NA	NA	NA	13650		
2	Homeopathy	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		
3	Ayurvedic	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		
4	Unani	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.34

Details of Medical Facilities Manoor Mandal

Sl.NO	Particulars	Units	Pre-project (1989-90)		Post-project (2007-08)		% Increase	
			Govt.	PHC	Govt.	PHC	Govt.	PHC
1	Allopathy	Nos.						
a)	PHC's	Nos.	Nil	1	Nil	1		0
b)	No of Doctors	Nos.	Nil	1	Nil	0		-100
c)	Beds	Nos.	Nil	2	Nil	2		0
d)	No of Patients Treated	Nos.	NA	NA	NA	16260		
2	Homeopathy	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		
3	Ayurvedic	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		
4	Unani	Nos.						
a)	No of Doctors	Nos.	Nil	Nil	Nil	Nil		
b)	No of Patients Treated	Nos.	Nil	Nil	Nil	Nil		

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.35

Details of Family Welfare Programs of Medak District

Sl.No	Name of FW Programs	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	VAS	Nos.	9339	31247	235
2	TUB	Nos.			
3	I U D	Nos.	3248	14100	334

Source: Compiled from Hand Book of Statistics, Medak District

Annexure IV.36

Details of Family Welfare Programs of Pulkal Mandal

Sl.NO	Name of FW Programs	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	V A S	Nos.	316	601	90
2	T U B	Nos.			
3	I U D	Nos.	1	206	20500

Source: Compiled from Hand Book of Statistics, Medak District

Annexure IV.37

Details of Family Welfare Programs of Munepalle Mandal

Sl.NO	Name of FW Programs	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	V A S	Nos.	67	564	742
2	T U B	Nos.			
3	I U D	Nos.	32	196	513

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.38

Details of Family Welfare Programs of Regode Mandal

Sl.NO	Name of FW Programs	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	V A S	Nos.	25	371	1384
2	T U B	Nos.			
3	I U D	Nos.	Nil	196	196

Source: Compiled from Hand Book of Statistics, Medak District

Annexure IV.39

Details of Family Welfare Programs of Raikode Mandal

Sl.NO	Name of FW Programs	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	V A S	Nos.	17	480	652
2	T U B	Nos.			
3	I U D	Nos.		238	100

Source: Compiled from Hand Book of Statistics, Medak District

Annexure IV.40

Details of Family Welfare Programs of Nyalkal Mandal

Sl.NO	Name of FW Programs	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	V A S	Nos.	79	353	347
2	T U B	Nos.			
3	I U D	Nos.	358	228	-36.31

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.41

Details of Family Welfare Programs of Manoor Mandal

Sl.NO	Name of FW Programs	Units	Pre- Project (1989-90)	Post –Project (2007-08)	% Increase / Decrease
1	V A S	Nos.	89	263	195.5
2	T U B	Nos.			
3	I U D	Nos.	28	93	-232.14

Source: Compiled from Hand Book of Statistics, Medak District

Annexure IV.42

Comparison of Family Welfare Programs in Project and Non-Project Area

Sl.NO	Particulars	Total of All Project Mandals			Total of Non - Project Mandals		
		Before Project	After Project	Increase / Decrease	Before Project	After Project	Increase / Decrease
1	VAS	593	2632	343.84	8746	28615	227.18
2	TUB						
3	IUD	419	1157	176.13	2829	12943	357.51

Source: Compiled from Hand Book of Statistics, Medak District



Annexure IV.43

Demography and Populaion of Sampled Rehabilitated Area

Sl No	District	Mandal	Village	Families	Pre-Project : Total Members			Female per 1000 Males	Ave Size	Post-Project : Total Members			Female per 1000 Males	Ave Size
				Total HH	Male	Female	Total			Male	Female	Total		
1	Medak	Manoor	New Bellapur	25	89	67	156	753	6.24	71	65	136	915	5.44
2	Medak	Manoor	Pulukurthy	25	85	76	161	894	6.44	90	93	183	1,033	7.32
3	Medak	Munipalli	Beluru	25	82	61	143	744	5.72	97	84	181	866	7.24
4	Medak	Munipalli	Marthakeswaram	25	80	63	143	788	5.72	80	74	154	925	6.16
5	Medak	Pulkal	Koduru	25	70	56	126	800	5.04	67	60	127	896	5.08
6	Medak	Pulkal	Singur	25	93	64	157	688	6.28	79	71	150	899	6.00
7	Medak	Raikode	Doulthabad	25	68	49	117	721	4.68	80	63	143	788	5.72
8	Medak	Raikode	Sirur	25	74	64	138	865	5.52	74	57	131	770	5.24
9	Medak	Regod	Nirjapla	25	79	74	153	937	6.12	73	60	133	822	5.32
10	Medak	Regod	Usirkapally	25	75	91	166	1,213	6.64	64	60	124	938	4.96
			Sub Total	250	795	665	1460	836	5.84	775	687	1462	886	5.85



Annexure IV.44

Castewise distribution of Households

SI No	DISTRICT	Mandal	Village	Head of the Family				
				SC	ST	BC	OC	Total
1	Medak	Manoor	New Bellapur			17	8	25
2	Medak	Manoor	Pulukurthy			12	13	25
3	Medak	Munipalli	Beluru	6		15	4	25
4	Medak	Munipalli	Marthakeswaram	6		10	9	25
5	Medak	Pulkal	Koduru	6		14	5	25
6	Medak	Pulkal	Singur	3	1	19	2	25
7	Medak	Raikode	Doulthabad	6	1	12	6	25
8	Medak	Raikode	Sirur			13	12	25
9	Medak	Regod	Nirjapla	6		12	7	25
10	Medak	Regod	Usirkapally	6		15	4	25
			Total	39	2	139	70	250
			%	15.60	0.80	55.60	28.00	100.0



Annexure IV.45

Occupation-wise distribution of Households

Sl No	DISTRICT	Mandal	Village	Primray Occupation of HH										Total
				Cultivator	Agriculture laboures	Auto Dirver	Business	Casual laboures	Fisher man	Landless	Rural Artisan	Service	Sheep / goat rearing	
1	Medak	Manoor	New Bellapur	13	4	1	1	2		2	2			25
2	Medak	Manoor	Pulukurthy	11	7		1	1		3	2			25
3	Medak	Munipalli	Beluru	18	1				1	4	1			25
4	Medak	Munipalli	Marthakeswaram	24	1									25
5	Medak	Pulkal	Koduru	13	5			2		1		3	1	25
6	Medak	Pulkal	Singur	8	8		1	2			1	3	2	25
7	Medak	Raikode	Doulthabad	9	13					2			1	25
8	Medak	Raikode	Sirur	11	10		1	3						25
9	Medak	Regod	Nirjapla	22			1		1	1				25
10	Medak	Regod	Usirkapally	19	4			1		1				25
			Total	148	53	1	5	11	2	14	6	6	4	250
			%	59.2	21.2	0.4	2.0	4.4	0.8	5.6	2.4	2.4	1.6	100.0



Annexure IV.46

Literacy of Sampled Rehabilitated Area

Sl No	District	Mandal	Village	Pre-Project					Post-Project					% Increase in Literacy rate from Pre to Post
				Total Members	Male	Female	Total Literates	% Literacy	Total Members	Male	Female	Total Literates	% Literacy	
1	Medak	Manoor	New Bellapur	156	26	14	40	26	136	50	29	79	58	32
2	Medak	Mantoor	Pulkurthy	161	30	15	45	28	183	50	36	86	47	19
3	Medak	Munepally	Beluru	143	14	10	24	17	181	39	28	67	37	20
4	Medak	Munepally	Marthakeswaram	143	20	1	21	15	154	36	26	62	40	25
5	Medak	Pulkal	Koduru	126	14	11	25	20	127	30	24	54	43	23
6	Medak	Pulkal	Singur	157	34	18	52	33	150	48	32	80	53	30
7	Medak	Raikode	Doultabad	117	21	6	27	23	143	39	21	60	42	19
8	Medak	Raikode	Sirur	138	25	11	36	26	131	40	27	67	51	25
9	Medak	Regod	Nirjapla	153	7	0	7	5	133	37	17	54	41	50
10	Medak	Regod	Usirkapally	166	10	6	16	10	124	33	23	56	45	35
			Sub Total	1460	201	92	293	20	1462	402	263	665	45	25
			% to Total Population		25.28	13.83	20			58.51	38.28	45.58	45	



Annexure IV.47

Household Possession by Sampled Household

Sl No	District	Mandal	Village	Pre Project		
				Pucca House	Semi Pucca House	Katcha House
1	Medak	Manoor	New Bellapur	5	17	3
2	Medak	Manoor	Pulukurthy		12	13
3	Medak	Munipalli	Beluru		15	10
4	Medak	Munipalli	Marthakeswaram		17	8
5	Medak	Pulkal	Koduru		21	4
6	Medak	Pulkal	Singur	2	18	5
7	Medak	Raikode	Doulthabad		10	15
8	Medak	Raikode	Sirur	2	14	9
9	Medak	Regod	Nirjapla	1	17	7
10	Medak	Regod	Usirkapally		21	4
			Total	10	162	78
			%	4	64.8	31.2
	Note :Sample 250 HH					
Sl No	District	Mandal	Village	Post - Project		
				Pucca House	Semi Pucca House	Katcha House
1	Medak	Manoor	New Bellapur	3	21	1
2	Medak	Manoor	Pulukurthy	1	21	3
3	Medak	Munipalli	Beluru		25	
4	Medak	Munipalli	Marthakeswaram	1	23	1
5	Medak	Pulkal	Koduru	3	21	1
6	Medak	Pulkal	Singur	2	23	
7	Medak	Raikode	Doulthabad	1	22	2
8	Medak	Raikode	Sirur	9	15	1
9	Medak	Regod	Nirjapla	1	17	7
10	Medak	Regod	Usirkapally		22	3
			Total	21	210	19
			%	9.55	95.45	8.64

Note :Sample 250 HH



Annexure IV.48

Household Asset Possession by Sampled Households

Sl No	District	Mandal	Village	Pre Project							
				Bicycle	Two Wheeler	Four Wheeler	Television	Radio	Refrigerator	Telephone	Mobile
1	Medak	Manoor	New Bellapur	4			4	7			
2	Medak	Manoor	Pulukurthy	8	2		2	1			
3	Medak	Munipalli	Beluru	5	1						
4	Medak	Munipalli	Marthakeswaram	3							
5	Medak	Pulkal	Koduru	19	1					1	
6	Medak	Pulkal	Singur	5			2				
7	Medak	Raikode	Doulthabad		2			1			
8	Medak	Raikode	Sirur	4			1	1			
9	Medak	Regod	Nirjapla								
10	Medak	Regod	Usirkapally	1							
			Total	49	6	0	9	10	0	1	0
			%	19.6	2.4	0	3.6	4	0	0.4	0
	Note :Sample 250 HH										
										Contd..	



Annexure IV.48

Household Asset Possession by Sampled Households

SI No	District	Mandal	Village	Post-Project							
				Bicycle	Two Wheeler	Four Wheeler	Television	Radio	Refrigerator	Telephone	Mobile
1	Medak	Manoor	New Bellapur	8	3	1	18	8	2	2	18
2	Medak	Manoor	Pulukurthy	13	4	3	11	2		1	6
3	Medak	Munipalli	Beluru	18	2	1	21	1			9
4	Medak	Munipalli	Marthakeswaram		1		9				7
5	Medak	Pulkal	Koduru	22	6		11		1	3	10
6	Medak	Pulkal	Singur	7			24	1		1	20
7	Medak	Raikode	Doulthabad	6	5	1	10	1		1	11
8	Medak	Raikode	Sirur	14	3	1	15	4		2	12
9	Medak	Regod	Nirjapla		1		3				5
10	Medak	Regod	Usirkapally	1		1	3				3
			Total	89	25	8	125	17	3	10	101
			%	40.45	11.36	3.64	56.82	7.73	1.36	4.55	45.91
	Note :Sample 250 HH										



Annexure IV.49

Income per Household in the Rehabilitated Area

Sl No	Source of Income	No of HH		% HH having Source of Income		Total Income, Rs		% of Total Income		Ave. Income, Rs/HH	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Net Income from Agri.	235	217	94	87	5,155,500	5,543,502	63	45	21,938	25,546
2	Wages	195	221	78	88	1,887,850	4,162,700	23	34	9,681	18,836
3	Dairy	71	58	28	23	168,300	287,200	2	2	2,370	4,952
4	Business	20	24	8	10	25,000	236,500	0	2	1,250	9,854
5	Land Lease	24	23	10	9	98,000	177,000	1	1	4,083	7,696
6	Poultry	0	0	0	0	0	0	0	0	-	-
7	Fish	19	20	8	8	62,000	65,000	1	1	3,263	3,250
8	Rent	17	17	7	7	6,000	1,800	0	0	353	106
9	Artisans	109	110	44	44	623,500	1,251,000	8	10	5,720	11,373
10	Service	33	42	13	17	96,600	626,000	1	5	2,927	14,905
11	Cottage industry	0	0	0	0	0	0	0	0	-	-
						8,122,750	12,350,702	100	100	32,491	49,403

Note :Sample 250 HH



Annexure IV.50

Expenditure per Household in the Rehabilitated Area

Sl No	End of Expenditure	No of HH		% HH having End of Expenditure		Total Expenditure, Rs		% of Total Expenditure		Ave. Expenditure, Rs/HH	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Food Grains	248	249	99	100	1,746,700	2,929,300	37	25	7,043	11,764
2	Food Items	247	248	99	99	755,300	1,527,300	16	13	3,058	6,158
3	Education	121	239	48	96	99,500	1,732,000	2	15	822	7,247
4	Health	239	244	96	98	318,100	882,600	7	8	1,331	3,617
5	Transportation	233	241	93	96	199,500	526,550	4	5	856	2,185
6	Fuel	209	239	84	96	146,200	467,200	3	4	700	1,955
7	House Improvement	101	142	40	57	141,900	923,900	3	8	1,405	6,506
8	Loan repayment	110	151	44	60	187,500	791,500	4	7	1,705	5,242
9	Religious functions	204	209	82	84	807,201	1,494,100	17	13	3,957	7,149
10	Others_ex	106	88	42	35	379,400	370,200	8	3	3,579	4,207
						4,781,301	11,644,650	100	100	19,125	46,579

Note :Sample 250 HH



Annexure IV. 51

Sources of Borrowing in Sample household in the Rehabilitated Area

Sl No	District	Mandal	Village	Source of Loans, No of HH				
				Bank	Co-operative Society	Friends_relatives	Money Lender	Total
1	Medak	Manoor	New Bellapur				5	5
2	Medak	Manoor	Pulukurthy	5	1	6	1	13
3	Medak	Munipalli	Beluru	9	3	9	2	23
4	Medak	Munipalli	Marthakeswaram	4	1	2		7
5	Medak	Pulkal	Koduru	4	2	4	2	12
6	Medak	Pulkal	Singur					0
7	Medak	Raikode	Doulthabad			9		9
8	Medak	Raikode	Sirur	5		3		8
9	Medak	Regod	Nirjapla					0
10	Medak	Regod	Usirkapally	1			2	3
			Total	28	7	33	12	80
			%	11.20	2.80	13.20	4.80	32

Note :Sample 250 HH



Annexure IV.52

Sources of Indebtness in Sample household in the Rehabilitated Area

Sl No	District	Mandal	Village	Source of Loans, Amount in Rs				
				Bank	Co-operative Society	Friends_relatives	Money Lender	Total
1	Medak	Manoor	New Bellapur				170,000	170,000
2	Medak	Manoor	Pulukurthy	130,000	10,000	90,000	30,000	260,000
3	Medak	Munipalli	Beluru	215,000	105,000	195,000	42,000	557,000
4	Medak	Munipalli	Marthakeswaram	72,000	40,000	180,000		292,000
5	Medak	Pulkal	Koduru	170,000	90,000	139,000	70,000	469,000
6	Medak	Pulkal	Singur					0
7	Medak	Raikode	Doulthabad			172,000		172,000
8	Medak	Raikode	Sirur	145,001		90,003		235,004
9	Medak	Regod	Nirjapla					0
10	Medak	Regod	Usirkapally	80,000			140,000	220,000
			Total	812,001	245,000	866,003	452,000	2,375,004
			% to Total	34.2	10.3	36.5	19.0	100.0
			Ave. Rs/HH	29,000	35,000	26,243	37,667	29,688



Annexure IV.53

Demography and Populaion of Sampled Partillay Affected Area

Sl No	District	Mandal	Village	Families	Pre-Project : Total Members			Female per 1000 Males	Ave Size	Post-Project : Total Members			Female per 1000 Males	Ave Size
				Total HH	Male	Female	Total			Male	Female	Total		
1	Medak	Manoor	Badalgam	10	34	36	70	1,059	7.00	25	30	55	1,200	5.50
2	Medak	Munipally	Cheelapalli	10	41	30	71	732	7.10	32	26	58	813	5.80
3	Medak	Pulkal	Pulkal	10	42	36	78	857	7.80	49	45	94	918	9.40
4	Medak	Raikode	Pampad	10	34	33	67	971	6.70	38	43	81	1,132	8.10
5	Medak	Raikode	Shapoor	10	32	30	62	938	6.20	34	31	65	912	6.50
6	Medak	Regod	Tattipally	10	31	40	71	1,290	7.10	24	28	52	1,167	5.20
			Sub Total	60	214	205	419	958	6.98	202	203	405	1005	6.75



Annexure IV.54

Castewise distribution of Households

Sl No	DISTRICT	Mandal	Village	Head of the Family				
				SC	ST	BC	OC	Total
1	Medak	Manoor	Badalgam	1		9		10
2	Medak	Munipally	Cheelapalli	1		9		10
3	Medak	Pulkal	Pulkal		1	2	7	10
4	Medak	Raikode	Pampad	3		6	1	10
5	Medak	Raikode	Shapoor	5	1	2	2	10
6	Medak	Regod	Tattipally	1		9		10
			Total	11	2	37	10	60
			%	18.33	3.33	61.67	16.67	100.0



Annexure IV.55

Literacy of Sampled Partillay Affected Area

Sl No	District	Mandal	Village	Pre-Project					Post-Project				
				Total Members	Male	Female	Total Literates	% Literacy	Total Members	Male	Female	Total Literates	% Literacy
1	Medak	Manoor	Badalgam	70	34	36	29	41	55	25	30	32	58
2	Medak	Munipally	Cheelapalli	71	41	30	18	25	58	32	26	26	45
3	Medak	Pulkal	Pulkal	78	42	36	32	41	94	49	45	40	43
4	Medak	Raikode	Pampad	67	34	33	25	37	81	38	43	37	46
5	Medak	Raikode	Shapoor	62	32	30	18	29	65	34	31	34	52
6	Medak	Regod	Tattipally	71	31	40	24	34	52	24	28	26	50
			Sub Total	419	214	205	146	35	405	202	203	195	48



Annexure IV.56

Income per Household in the Partilally Affected Area

Sl No	Source of Income	No of HH		% HH having Source of Income		Total Income, Rs		% of Total Income		Ave. Income, Rs/HH	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Net Income from Agri.	58	55	23	22	2,124,000	5,691,600	66.1	55.6	36,621	103,484
2	Wages	46	46	18	18	489,000	1,711,900	15.2	16.7	10,630	37,215
3	Dairy	33	28	13	11	84,700	392,700	2.6	3.8	2,567	14,025
4	Business	2	1	1	0	7,000	102,000	0.2	1.0	3,500	102,000
5	Land Lease	6	4	2	2	71,000	221,000	2.2	2.2	11,833	55,250
6	Poultry						0			-	-
7	Fish	1	1	0	0	1,500	8,500	0.0	0.1	1,500	8,500
8	Rent	1	1	0	0	5,000	51,000	0.2	0.5	5,000	51,000
9	Artisans	40	42	16	17	325,200	1,570,800	10.1	15.3	8,130	37,400
10	Service	10	12	4	5	104,000	487,900	3.2	4.8	10,400	40,658
11	Cottage industry	0	0	0	0		0	0.0	0.0	-	-
						3,211,400	10,237,400	100.0	100.0	12,846	40,950

Note :Sample 60 HH



Annexure IV.57

Expenditure per Household in the Partilally Affected Area

SI No	End of Expenditure	No of HH		% HH having End of Expenditure		Total Expenditure, Rs		% of Total Expenditure		Ave. Expenditure, Rs/HH	
		Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Food Grains	60	59	24	24	889,650	1,372,275	39	15	14,828	23,259
2	Food Items	60	60	24	24	315,900	643,174	14	7	5,265	10,720
3	Education	34	58	14	23	132,908	1,302,764	6	14	3,909	22,461
4	Health	60	60	24	24	197,775	681,008	9	7	3,296	11,350
5	Transportation	53	54	21	22	115,830	283,817	5	3	2,185	5,256
6	Fuel	50	55	20	22	78,098	251,114	3	3	1,562	4,566
7	House Improvement	6	23	2	9	25,650	352,688	1	4	4,275	15,334
8	Loan repayment	23	33	9	13	90,720	1,129,883	4	12	3,944	34,239
9	Religious functions	35	52	14	21	268,650	2,858,949	12	31	7,676	54,980
10	Others_ex	27	27	11	11	188,190	302,927	8	3	6,970	11,220
						2,303,370	9,178,596	100	100	9,213	36,714

Note :Sample 60 HH



Annexure IV.58

Indebitness in the Partially Affcted Area

Sl No	District	Mandal	Village	Source of Loans, No of HH				Source of Loans, No of HH			
				Bank	Friends and relatives	Money Lender	Total	Bank	Friends and relatives	Money Lender	Total
1	Medak	Manoor	Badalgam	5	1	4	10	220000	20000	60000	300000
2	Medak	Munipally	Cheelapalli	1	2	0	3	200000	0	72000	272000
3	Medak	Pulkal	Pulkal	1	0	2	3	100000	15000	0	115000
4	Medak	Raikode	Pampad	5	0	5	10	145000	12000	0	157000
5	Medak	Raikode	Shapoor	4	1	2	7	75000	40000	30000	145000
6	Medak	Regod	Tattipally	8	0	1	9	130000	0	0	130000
			Total	24	4	14	42	870000	87000	162000	1119000
			%	40.00	6.67	23.33	70.00	77.7	7.8	14.5	100
			Ave. Rs/HH					36250	21750	11571	26643

Note :Sample 60 HH



Annexure V.1

Land Utilization Particulars of Medak District

Sl. No	Land Utilization	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Geographical Area	Hectares	951922	951922	0
2	Forest	Hectares	86564	79922	-7.67
3	Barren and Uncultivated	Hectares	65568	58838	-10.26
4	Land put to Non-Agriculture Use	Hectares	60660	54992	-9.34
5	Culturable Waste	Hectares	2647	19553	638.69
6	Permanent Pastures & Grazing land	Hectares	44392	28623	-35.52
7	Misc Trees & Groves	Hectares	8520	3796	-55.45
8	Current Fallows	Hectares	184868	189987	2.77
9	Other Fallows	Hectares	55150	103751	88.13
10	Net Area Sown (Kharif)	Hectares	420076	366496	-12.75
11	Net Area Sown (Rabi)	Hectares	52734	54800	3.92
12	Total Net Area Sown	Hectares	472810	421296	-10.9
13	Cropping Intensity	Percentage	112%	114%	2.00

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.2

Land Utilization Particulars of Pulkal Mandal

Sl. No	Land Utilization	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Geographical Area	Hectares	24778	24778	0
2	Forest	Hectares	1171	1171	0
3	Barren and Uncultivated	Hectares	1248	554	-55.61
4	Land put to Non-Agriculture Use	Hectares	1225	4141	238.04
5	Culturable Waste	Hectares	20	351	1,655.00
6	Permanent Pastures & Grazing land	Hectares	NIL	Nil	Nil
7	Misc Trees & Groves	Hectares	1303	78	-94.01
8	Current Fallows	Hectares	3818	6532	71.08
9	Other Fallows	Hectares	4500	2770	-38.44
10	Net Area Sown (Kharif)	Hectares	11406	6588	-42.24
11	Net Area Sown (Rabi)	Hectares	1808	2590	43.25
12	Total Net Area Sown	Hectares	13214	9178	-30.54
13	Cropping Intensity	Percentage	115%	113%	-2.00

Source: Compiled from Hand Book of Statistics Medak District



Annexure V.3

Land Utilization Particulars of Muniapalle Mandal

Sl. No	Land Utilization	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Geographical Area	Hectares	21672	21672	0.00
2	Forest	Hectares	0	0	0.00
3	Barren and Uncultivated	Hectares	1383	1383	0.00
4	Land put to Non-Agriculture Use	Hectares	2109	2864	35.8
5	Culturable Waste	Hectares	326	244	-25.15
6	Permanent Pastures & Grazing land	Hectares	0	0	0.00
7	Misc Trees & Groves	Hectares	0	0	0.00
8	Current Fallows	Hectares	187	4160	2,124.60
9	Other Fallows	Hectares	632	2119	235.28
10	Net Area Sown (Kharif)	Hectares	14982	7909	-47.21
11	Net Area Sown (Rabi)	Hectares	716	2990	317.60
12	Total Net Area Sown	Hectares	15698	10899	-31.87
13	Cropping Intensity	Percentage	104%	137%	33.00

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.4

Land Utilization Particulars of Regode Mandal

Sl. No	Land Utilization	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Geographical Area	Hectares	15339	15647	2.01
2	Forest	Hectares	619	461	-25.53
3	Barren and Uncultivated	Hectares	994	186	-81.29
4	Land put to Non-Agriculture Use	Hectares	825	48	-94.18
5	Culturable Waste	Hectares	20	1355	6,675.00
6	Permanent Pastures & Grazing land	Hectares	369	2686	627.91
7	Misc Trees & Groves	Hectares	0	0	0
8	Current Fallows	Hectares	4081	2685	-34.21
9	Other Fallows	Hectares	1382	963	-30.32
10	Net Area Sown (Kharif)	Hectares	6652	6339	-4.71
11	Net Area Sown (Rabi)	Hectares	206	858	316.5
12	Total Net Area Sown	Hectares	6858	7197	4.94
13	Cropping Intensity	Percentage	103%	113%	10.00

Source: Compiled from Hand Book of Statistics Medak District



Annexure V.5

Land Utilization Particulars of Raikode Mandal

Sl. No	Land Utilization	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Geographical Area	Hectares	21310	21310	0.00
2	Forest	Hectares	0	0	0.00
3	Barren and Uncultivated	Hectares	703	510	-27.45
4	Land put to Non-Agriculture Use	Hectares	1108	482	-56.50
5	Culturable Waste	Hectares	1065	1356	27.32
6	Permanent Pastures & Grazing land	Hectares	788	0	-100.00
7	Misc Trees & Groves	Hectares	170	18	-89.41
8	Current Fallows	Hectares	4196	1866	-55.53
9	Other Fallows	Hectares	468	5311	1034.83
10	Net Area Sown (Kharif)	Hectares	12811	10307	-19.55
11	Net Area Sown (Rabi)	Hectares	808	3108	284.65
12	Total Net Area Sown	Hectares	13619	13415	-1.50
13	Cropping Intensity	Percentage	106%	130%	24

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.6

Land Utilization Particulars of Nyalkal Mandal

Sl. No	Land Utilization	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Geographical Area	Hectares	24985	24985	0.00
2	Forest	Hectares	1027	537	0.00
3	Barren and Uncultivated	Hectares	824	1777	115.66
4	Land put to Non-Agriculture Use	Hectares	1299	376	-71.05
5	Culturable Waste	Hectares	1249	0	-100.00
6	Permanent Pastures & Grazing land	Hectares	924	2071	124.13
7	Misc Trees & Groves	Hectares	199	0	-100.00
8	Current Fallows	Hectares	4755	3318	-30.22
9	Other Fallows	Hectares	549	1208	120.04
10	Net Area Sown (Kharif)	Hectares	14159	13763	-2.80
11	Net Area Sown (Rabi)	Hectares	1311	2298	75.29
12	Total Net Area Sown	Hectares	15470	16061	3.82
13	Cropping Intensity	Percentage	109%	117%	8

Source: Compiled from Hand Book of Statistics Medak District



Annexure V.7

Land Utilization Particulars of Manoor Mandal

Sl. No	Land Utilization	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Geographical Area	Hectares	29678	29678	0.00
2	Forest	Hectares	105	75	-28.57
3	Barren and Uncultivated	Hectares	1091	1465	34.28
4	Land put to Non-Agriculture Use	Hectares	1144	223	-80.51
5	Culturable Waste	Hectares	803	0	-100.00
6	Permanent Pastures & Grazing land	Hectares	2176	2428	11.58
7	Misc Trees & Groves	Hectares	698	0	-100.00
8	Current Fallows	Hectares	100	4987	4887.00
9	Other Fallows	Hectares	375	1619	331.73
10	Net Area Sown (Kharif)	Hectares	23185	17562	-24.25
11	Net Area Sown (Rabi)	Hectares	490	1214	147.76
12	Total Net Area Sown	Hectares	23675	18776	-20.69
13	Cropping Intensity	Percentage	102%	107%	5

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.8

Comparison of Land Utilization in Project and Non Project Mandals of Medak Dist

Sl. No	Land Utilization	Units	Total of All Project Mandals			Total of Non-Project Mandals		
			Before Project	After Project	Increase / Decrease	Before Project	After Project	Increase / Decrease
1	Geographical Area	Hectares	137762	137762	0.00	814160	814160	0.00
2	Forest	Hectares	2922	2244	-23.20	83642	77678	-7.13
3	Barren and Uncultivated	Hectares	6243	4275	-31.52	59325	54563	-8.03
4	Land put to Non-Agriculture Use	Hectares	7710	8134	5.50	52950	46858	-11.51
5	Culturable Waste	Hectares	3483	3306	-5.08	-836	16247	-2043.42
6	Permanent Pastures & Grazing land	Hectares	4257	7185	68.78	40135	21438	-46.59
7	Misc Trees & Groves	Hectares	2370	96	-95.95	6150	3700	-39.84
8	Current Fallows	Hectares	17137	23548	37.41	167731	166439	-0.77
9	Other Fallows	Hectares	7906	13990	76.95	47244	89761	89.99
10	Net Area Sown (Kharif)	Hectares	83195	62468	-24.91	336881	304028	-9.75
11	Net Area Sown (Rabi)	Hectares	5339	13058	144.58	47395	41742	-11.93
12	Total Net Area Sown	Hectares	88534	75526	-14.69	383976	345770	-9.95
13	Cropping Intensity	Percentage	106%	120%	14	114	114	0.00

Source: Compiled from Hand Book of Statistics Medak District



Area / Production and Productivity of Rice in Project and Non-Project Mandals of Medak District(Pre&Post)

Sl. No	District / Mandal	Pre – Project			Post-Project			Absolute numbers Increase / Decrease			% Increase / Decrease		
		Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl Per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area (ha)	Production (Tonnes)	Productivity (Qtl per Ha)
1	District	130655	219892	16.83	92,809	281490	30.33	-37,846	61598	13.50	-28.97	28.01	80.21
2	Pulkal	2612	4396		986	2991		-1,626	-1405		-62.25	-31.97	
3	Munipalle	100	168		207	628		107	460		107.00	273.04	
4	Regode	492	828		571	1732		79	904		16.06	109.15	
5	Raikode	341	574		204	619		-137	45		-40.18	7.81	
6	Nayalkal	400	673		127	385		-273	-288		-68.25	-42.78	
7	Manoor	88	148		491	1489		403	1341		457.95	905.51	
8	Project Mandals Total	4033	6788		2586	7843		-1,447	1056		-35.88	15.55	
9	Non-Projects Mandals Total	126622	213105		90,223	273646		-36,399	60542		-28.75	28.41	

Source: Compiled from Hand Book of Statistics Medak District

Note: As the production figures Mandal-wise are not available, the District Average is taken for calculation and computation



Area/Production and Productivity of Redgram in Project and Non-Project mandals of Medak (Pre & Post)

Sl. No	District / Mandal	Pre – Project			Post-Project			Absolute numbers Increase / Decrease			% Increase / Decrease		
		Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)
1	District	13850	18975	13.7	23,716	11953	5.04	9,866	-7022	-8.66	71	-37.0	-63.21
2	Pulkal	547	749		427	215		-120	-534		-22	-71.3	
3	Munipalle	1120	1534		607	306		-513	-1228		-46	-80.1	
4	Regode	302	414		567	286		265	-128		88	-30.9	
5	Raikode	457	626		749	377		292	-249		64	-39.7	
6	Nyalkal	509	697		1,273	642		764	-56		150	-8.0	
7	Manoor	1566	2145		2,321	1170		755	-976		48	-45.5	
8	Project Mandals Total	4501	6166		5,944	2996		1,443	-3171		32	-51.4	
9	Non-Projects Mandals Total	9349	12808		17,772	8957		8,423	-3851		90	-30.1	

Source: Compiled from Hand Book of Statistics Medak District

Note: As the production figures Mandal-wise are not available, the District Averages taken for calculation and computation



Annexure V.11

Annexure V.11 Area/Production and Productivity of Jowar Project and Non-Project mandals of Medak District (Pre & Post)

Sl. No	District/ Mandal	Pre – Project			Post-Project			Absolute numbers Increase / Decrease			% Increase / Decrease		
		Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)
1	District	124530	497894	39.98	44,722	54919	12.28	-79,808	-442975	-27.70	-64	-89.0	-69.29
2	Pulkal	0	0	0	1,585	1946		1,585	1946			100.0	
3	Munipalle	4055	16179		1,362	1673		-2,693	-14507		-66	-89.7	
4	Regode	4297	17145		1,413	1735		-2,884	-15410		-67	-89.9	
5	Raikode	3933	15693		2,083	2558		-1,850	-13135		-47	-83.7	
6	Nyalkal	5830	23262		2,849	3499		-2,981	-19763		-51	-85.0	
7	Manoor	10987	43838		4,047	4970		-6,940	-38868		-63	-88.7	
8	Project Mandals	29102	116117		13339	16380		-15,763	-99737		-54	-85.9	
9	Non-Projects mandals total	95428	380758		31383	38539		-64,045	-342219		-67	-89.9	

Source: Compiled from Hand Book of Statistics Medak District

Note: As the production figures Mandal-wise are not available, the District Averages taken for calculation and computation



Area / Production and Productivity of Maize in Project and Non-Project Mandals of Medak District (Pre & Post)

Sl. No	District / Mandal	Pre – Project			Post-Project			Absolute numbers Increase / Decrease			% Increase / Decrease		
		Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)
1	District	65487	130974	20	101,598.00	428947	32.75	36,111	297973	12.75	55	228	63.75
2	Pulkal	0	0		93	305		93	305		100	100	
3	Munipalle	0	0		43	141		43	141		100	100	
4	Regode	0	0		54	177		54	177		100	100	
5	Raikode	0			47	154		47	154			100	
6	Nyalkal	0			0	0		0	0				
7	Manoor	0			0	0		0	0				
8	Project Mandals Total	0	0		237	776		237	776				
9	Non-Projects Mandals Total	65487	130974	20	101360	428171		35,873	297197	-20.00	55	227	-100.00

Source: Compiled Hand Book of Statistics Medak District

Note: As the production figures Mandal-wise are not available, the District Averages taken for calculation and computation



Annexure V.13

Area / Production and Productivity of Greengram in Project and Non-Project Mandals of Medak District (Pre & Post)

Sl. No	District / Mandal	Pre – Project			Post-Project			Absolute numbers Increase / Decrease			% Increase / Decrease		
		Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)
1	District	23436	58590	25	52,817	45000	8.52	29,381	-13590	-16.48	125	-23	-193.43
2	Pulkal	579	1448		920	784		341	-663.66		59	-46	
3	Munipalle	723	1808		2,805	2390		2,082	582.36		288	32	
4	Regode	708	1770		3,444	2934		2,736	1164.288		386	66	
5	Raikode	8453	21133		5,698	4855		-2,755	-16277.804		-33	-77	
6	Nyalkal	1487	3718		5,628	4795		4,141	1077.556		278	29	
7	Manoor	3902	9755		6,459.00	5503		2,557	-4251.932		66	-44	
8	Project Mandals Total	15852	39630		24945	21253		9,093	-18377		57	-46	
9	Non-Projects Mandals Total	7584	18960		27872	23747		20,288	4787		268	25	

Source: Compiled from Hand Book of Statistics Medak District

Note: As the production figures Mandal-wise are not available, the District Averages taken for calculation and computation



Annexure V.14

Area / Production and Productivity of Sugarcane in Project and Non-Project Mandals of Medak District (Pre & Post)

Sl. No	District / Mandal	Pre – Project			Post-Project			Absolute numbers Increase / Decrease			% Increase / Decrease		
		Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)
1	District	32537	2310127	710	52,099	4173495	801	19,562	1863368	91	60	80	12.83
2	Pulkal	651	46221		5,317	425892		4,666	379671		717	821	
3	Munipalle	199	14129		845	67685		646	53556		325	379	
4	Regode	47	3337		621	49742		574	46405		1221	1391	
5	Raikode	625	44375		1139	91234		514	46859		82	106	
6	Nyalkal	1852	131492		3167	253677		1,315	122185		71	93	
7	Manoor	126	8946		1496	119830		1,370	110884		1087	1239	
8	Project Mandals Total	3205	227555		12585	1008059		9,380	780504		293	343	
9	Non-Projects Mandals Total	29332	2082572		39514	3165436		10,182	1082864		35	52	

Source: Compiled from Hand Book of Statistics Medak District

Note: As the production figures Mandal-wise are not available, the District Averages taken for calculation and computation



Annexure V.15

Area / Production and Productivity of Groundnut in Project and Non-Project Mandals of Medak(Pre &Post)

Sl. No	District / Mandal	Pre – Project			Post-Project			Absolute numbers Increase / Decrease			% Increase / Decrease		
		Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tonnes)	Productivity (Qtl per Ha)
1	District	6715	54794.4	81.6	2,208.00	4,158	18.83	-4,507	-50,636	-62.77	-67	-92	-76.92
2	Pulkal	130	1061		96	181		-34	-880		-26	-83	
3	Munipalle	80	653		0	0		-80	-653		-100	-100	
4	Regode	40	326		26	49		-14	-277		-35	-85	
5	Raikode	110	898		64	121		-46	-777		-42	-87	
6	Nyalkal	442	3607		0	0		-442	-3,607		-100	-100	
7	Manoor	184	1501		1	2		-183	-1,500		-99	-100	
8	Project Mandals Total	986	8046		187	352		-799	-7,694		-81	-96	
9	Non-Projects Mandals Total	5729	46748		2021	3,806		-3,708.00	-42,943		-65	-92	

Source: Compiled from Hand Book of Statistics Medak District

Note: As the production figures Mandal-wise are not available, the District Averages taken for calculation and computation



Area / Production and Productivity of Blackgram in Project and Non-Project Mandals of Medak District (Pre & Post)

Sl. No	District / Mandal	Pre – Project			Post-Project			Increase / Decrease			Increase / Decrease		
		Area in (ha)	Production (Tones)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tones)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tones)	Productivity (Qtl per Ha)	Area in (ha)	Production (Tones)	Productivity (Qtl per Ha)
1	District	11178	26604	2.38	21,216	147,663	6.96	10,038	121060	4.58	21,116	455	-93.04
2	Pulkal	504	192		432	415		-72	223		332	117	
3	Munipalle	515	196		745	715		230	520		645	265	
4	Regode	152	58		794	762		642	704		694	1,220	
5	Raikode	472	179		909	873		437	693		809	387	
6	Nyalkal	1084	412		1,923	1,846		839	1434		1,823	348	
7	Manoor	2075	789		3,141	3,015		1,066	2227		3,041	282	
8	Project Mandals Total	4802	1825		7,944	7,626		3,142	5801		7,844	318	
9	Non-Projects Mandals Total	6376	24779		13,272	140,037		6,896	115258		13,172	465	

Source: Compiled from Hand Book of Statistics Medak District

Note: As the production figures Mandal-wise are not available, the District Averages taken for calculation and computation



Annexure V.17

Cropping Pattern in Medak District (Major Crops)

Sl. No	Name of the Crop	Pre-Project Area in Ha			Post-Project Area in Ha			Increase/Decrease		
		Kharif	Rabi	Total	Kharif	Rabi	Total	Kharif	Rabi	Total
1	Paddy	95793	34861	130654	57651	35158	92809	-39.82	0.85	-28.97
2	Groundnut	3745	2970	6715	249	1959	2208	-93.35	-34.04	-67.12
3	Jowar	75086	39444	124530	25666	19056	44722	-65.82	-51.69	-64.09
4	Maize	62528	2959	65487	98253	3345	101598	57.13	13.04	55.14
5	Greendgram	23432	4	23436	52817	0	52817	125.41	-100.00	125.37
6	Sugar Cane	16566	15971	32537	33015	19084	52099	99.29	19.49	60.12
7	Chillies	750	5630	6380	3270	1299	4569	336.00	-76.93	-28.39
8	Sunflower	2310	851	3161	1250	17226	18476	-45.89	1924.21	484.50
9	Bajra	3150	0	3150	667	0	667	-78.83	0.00	-78.83
10	Ragi	1723	4	1727	6	0	6	-99.65	-100.00	-99.65
11	Balckgram	11178	0	11178	21216	0	21216	89.80	0.00	89.80
12	Redgram	13842	8	13850	23716	0	23716	71.33	-100.00	71.23
13	Bengalgram	0	111751	11751	0	37660	37660	0.00	-66.30	220.48
14	Total	310103	214453	434556	317776	134787	452563	2.47	-37.15	4.14

Note: Position as per coverages

Source: Compiled from Hand Book of Statistics Medak District



Annexure V.18

Cropping Pattern Changes : Mandal-wise (Pre & Post Projects) Increase (Hectares) (figures Paranthesis () indicates position

Sl. No	Name of the Crop	Pulkal				Munipalle				Regode			
		Pre-Project (1989-90)		Post-Project (2007-08)		Pre-Project (1989-90)		Post-Project (2007-08)		Pre-Project (1989-90)		Post-Project (2007-08)	
		Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi
1	Paddy	1956 (2)	656 (2)	824 (3)	162 (4)	93 (6)	7 (3)	188 (6)	19 (3)	411 (3)	81	367 (4)	204 (3)
2	Groundnut	25 (8)	105 (4)	0	96 (5)	80				40 (7)		0	26 (5)
3	Jowar	1978 (1)	4236 (1)	138 (6)	1447 (2)	3568 (1)	3727 (1)	606 (4)	756 (1)	2861 (1)	1437 (1)	325 (5)	1088 (1)
4	Maize	0	0	93 (7)				43 (7)				54	
5	Greengram	579 (3)	0	920 (2)		793 (3)		2805 (1)		708 (2)		3444 (1)	
6	Surgacane	331 (5)	320 (3)	2792 (1)	2525 (1)	91 (7)	91 (2)	573 (5)	272 (2)	27	32 (2)	296 (6)	325 (2)
7	Sunflower	372 (7)	72 (5)	45	212 (3)	363 (5)				110 (6)		45 (7)	52 (4)
8	Blackgram	99 (6)	0	432 (4)		516 (4)		745 (2)		152 (5)		794 (2)	
9	Redgram	548 (4)	0	427 (5)		1025 (2)		607 (3)		222 (4)		567 (3)	

Note: Position as per coverages

Source: Compiled from Hand Book of Statistics Medak District

Contd..



Cropping Pattern Changes : Mandal-wise(Pre & Post Projects) Increase (Hectares) (figures Paranthesis () indicates position

Sl. No	Name of the Crop	Raikode				Nyalkal				Manoor			
		Pre-Project (1989-90)		Post-Project (2007-08)		Pre-Project (1989-90)		Post-Project (2007-08)		Pre-Project (1989-90)		Post-Project (2007-08)	
		Khariff	Rabi	Khariff	Rabi	Khariff	Rabi	Khariff	Rabi	Khariff	Rabi	Khariff	Rabi
1	Paddy	264(6)	77(4)	198(6)	6 (5)	400(6)	0	127 (6)	0	64(6)	23(4)	491(6)	0
2	Groundnut	110	0	4	60(4)	379 (7)	43(4)	0	0	175(5)	9(5)	1	0
3	Jowar	3392 (1)	2970(1)	1049(2)	1034(1)	3348(1)	6132(1)	1640(4)	1209(1)	7145(1)	3844(1)	2982(3)	1065(1)
4	Maize	0	0	47(7)	0	0	0	0	0	0	0	0	0
5	Greengram	845(2)	0	5698 (1)	0	1487 (2)	0	5628(1)	0	3902(2)	0	6459(1)	0
6	Sugarcane	312(5)	313(2)	652(5)	487(2)	1189(3)	663 (2)	3167(2)	0	49(7)	77(3)	1108(5)	388(3)
7	Sunflower	236(7)	88(3)	46	97(3)	226	65(3)	0	132(2)	20	134(2)	240(7)	482(2)
8	Blackgram	472(3)	0	909(3)	0	1085(4)	0	1923(3)	0	2076(3)	0	3142(2)	0
9	Redgram	457(4)	0	749(4)	0	509(5)	0	1273(5)	0	1566(4)	0	2321(4)	0

Note: Position as per coverages

Source: Compiled from Hand Book of Statistics Medak District



Annexure V.19

Livestock Population in Medak District

Sl.no	Livestock	Units	Pre - Project (1989-90)	Post -Project (2007-08)	Increase in Percentage
1	Cattle	Numbers	595163	421852	-29.12
2	Cross Breed Cattle	Numbers	10238	NA	NA
3	Buffalos	Numbers	208857	367350	75.89
4	Cross Breed Buffalos	Numbers	NA	NA	NA
5	Sheep	Numbers	202162	1015545	402.34
6	Poultry	Numbers	817579	8638614	956.61
7	Goats	Numbers	204692	369945	80.73

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.20

Livestock Population in Pulkal Mandal

Sl.no	Livestock	Units	Pre- Project (1988-89)	Post -Project (2007-08)	Increase in Percentage
1	Cattle	Numbers	11336	11380	0.39
2	Cross Breed Cattle	Numbers	92	NA	NA
3	Buffalos	Numbers	3983	6321	58.7
4	Cross Breed Buffalos	Numbers	NA	NA	NA
5	Sheep	Numbers	6841	14949	118.52
6	Poultry	Numbers	9129	12858	40.85
7	Goats	Numbers	3914	7097	81.32

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.21

Livestock Population in Muniipalle Mandal

Sl.no	Livestock	Units	Pre- Project (1989-90)	Post -Project (2007-08)	Increase in Percentage
	Cattle	Numbers	10837	7403	-31.69
2	Cross Breed Cattle	Numbers	22	NA	NA
3	Buffalos	Numbers	3072	2407	-21.65
4	Cross Breed Buffalos	Numbers	NA	NA	NA
5	Sheep	Numbers	4040	12364	206.04
6	Poultry	Numbers	8926	10790	20.88
7	Goats	Numbers	5585	5796	3.78

Source: Compiled from Hand Book of Statistics Medak District



Annexure V.22

Livestock Population in Regode Mandal

Sl.no	Livestock	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Cattle	Numbers	9243	5840	-36.82
2	Cross Breed Cattle	Numbers	115	NA	NA
3	Buffalos	Numbers	3904	3490	-10.6
4	Cross Breed Buffalos	Numbers	NA	NA	NA
5	Sheep	Numbers	5243	12803	144.19
6	Poultry	Numbers	2971	9295	212.86
7	Goats	Numbers	4131	4107	-0.58

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.23

Livestock Population in Raikode Mandal

Sl.no	Livestock	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Cattle	Numbers	10502	7801	-25.7
2	Cross Breed Cattle	Numbers	18	NA	NA
3	Buffalos	Numbers	4943	4986	0.9
4	Cross Breed Buffalos	Numbers	NA	NA	NA
5	Sheep	Numbers	3137	7253	131.2
6	Poultry	Numbers	6089	10177	67.1
7	Goats	Numbers	3674	6433	75.1

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.24

Livestock Population in Nyalkal Mandal

Sl.no	Livestock	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Cattle	Numbers	13499	8813	-34.7
2	Cross Breed Cattle	Numbers	120	NA	NA
3	Buffalos	Numbers	8697	7520	-13.5
4	Cross Breed Buffalos	Numbers	NA	NA	NA
5	Sheep	Numbers	2667	2970	11.4
6	Poultry	Numbers	7422	8371	12.8
7	Goats	Numbers	6378	7214	13.1

Source: Compiled from Hand Book of Statistics Medak District



Annexure V.25

Livestock Population in Manoor Mandal

Sl.no	Livestock	Units	Pre- Project (1989-90)	Post –Project (2007-08)	Increase in Percentage
1	Cattle	Numbers	16877	16057	-4.9
2	Cross Breed Cattle	Numbers	351	NA	NA
3	Buffalos	Numbers	10684	18415	72.4
4	Cross Breed Buffalos	Numbers	NA	NA	NA
5	Sheep	Numbers	3992	10608	165.7
6	Poultry	Numbers	7445	16976	128.0
7	Goats	Numbers	7512	10634	41.6

Source: Compiled from Hand Book of Statistics Medak District

Annexure V.25A

Animal Husbandry Programems in Project Affected Families 2007-08

Sl. No	Name of the Mandal	Work Done Particulars					
		Cases Treated	Deworming	Vaccination	Artificial Insemination	Calf borne	Fodder Development Acrs
1	Regode	37079	53452	68046	993	371	562
2	Pulkal	48180	54219	96510	915	350	657
3	Munipalle	43378	42723	71713	689	301	1020
4	Nyalkal	63951	37703	57957	1191	563	1521
5	Manoor	85324	80044	120743	3409	1513	1960
6	Raikode	42357	29273	50167	710	274	1442
Total		320269	297414	465136	7907	3372	7162

Soruce: Joint Director of Animal Husbandary, Sangareddy, Medak District





Annexure V.26

Opertional Land Holding of Sampled Rehabilitated Area

Sl No	District	Mandal	Village	No. of Farmers	Pre-Project				Post-Project			
					Irrigated, ha	Rainfed, ha	Waste Land, ha	Total Land, ha	Irrigated, ha	Rainfed, ha	Waste Land, ha	Total Land, ha
1	Medak	Manoor	New Bellapur	25	4.00	88.60	0.80	93.40	4.40	50.80		55.20
2	Medak	Manoor	Pulukurthy	25	12.80	14.80		27.60	7.60	6.40		14.00
3	Medak	Munipalli	Beluru	25		32.20		32.20	0.80	14.50		15.30
4	Medak	Munipalli	Marthakeswaram	25	11.92	36.56		48.48	0.40	20.44		20.84
5	Medak	Pulkal	Koduru	25	25.10	19.50	0.80	45.40	25.50	15.92		41.42
6	Medak	Pulkal	Singur	25	2.40	45.80		48.20	4.80	21.80		26.60
7	Medak	Raikode	Doulthabad	25		55.90		55.90		16.80		16.80
8	Medak	Raikode	Sirur	25	4.00	31.30		35.30	5.60	10.10		15.70
9	Medak	Regod	Nirjapla	25		112.10		112.10		12.48		12.48
10	Medak	Regod	Usirkapally	25	11.20	46.08	4.00	61.28	2.40	27.40		29.80
			Sub Total		71.42	482.84	5.60	559.86	51.50	196.64	0.00	248.14



Annexure V.27

Average. Opertional Land Holding of Sampled Rehabilitated Area

Sl No	District	Mandal	Village	No. of Farmers	Pre-Project				Post-Project			
					Irrigated, ha	Rainfed, ha	Waste Land, ha	Total Land, ha	Irrigated, ha	Rainfed, ha	Waste Land, ha	Total Land, ha
1	Medak	Manoor	New Bellapur	25	0.16	3.54	0.03	3.74	0.18	2.03	0.00	2.21
2	Medak	Manoor	Pulukurthy	25	0.51	0.59	0.00	1.10	0.30	0.26	0.00	0.56
3	Medak	Munipalli	Beluru	25	0.00	1.29	0.00	1.29	0.03	0.58	0.00	0.61
4	Medak	Munipalli	Marthakeswaram	25	0.48	1.46	0.00	1.94	0.02	0.82	0.00	0.83
5	Medak	Pulkal	Koduru	25	1.00	0.78	0.03	1.82	1.02	0.64	0.00	1.66
6	Medak	Pulkal	Singur	25	0.10	1.83	0.00	1.93	0.19	0.87	0.00	1.06
7	Medak	Raikode	Doulthabad	25	0.00	2.24	0.00	2.24	0.00	0.67	0.00	0.67
8	Medak	Raikode	Sirur	25	0.16	1.25	0.00	1.41	0.22	0.40	0.00	0.63
9	Medak	Regod	Nirjapla	25	0.00	4.48	0.00	4.48	0.00	0.50	0.00	0.50
10	Medak	Regod	Usirkapally	25	0.45	1.84	0.16	2.45	0.10	1.10	0.00	1.19
			Sub Total		0.29	1.93	0.02	2.24	0.21	0.79	0.00	0.99



Annexure V.28

Landholders became the Landless in the Rehabilitated Area

Sl No	District	Mandal	Village	Pre Project, No. of HH	Pre Project, Area, ha	Post Project, Area, ha
1	Medak	Manoor	New Bellapur	4	3.2	0
2	Medak	Manoor	Pulukurthy	8	6.0	0
3	Medak	Munipalli	Beluru	1	0.8	0
4	Medak	Munipalli	Marthakeswaram	2	1.8	0
5	Medak	Pulkal	Koduru			
6	Medak	Pulkal	Singur			
7	Medak	Raikode	Doulthabad	4	6.6	0
8	Medak	Raikode	Sirur	1	8.0	0
9	Medak	Regod	Nirjapla	10	24.5	0
10	Medak	Regod	Usirkapally	1	0.8	0
			Total	31	51.7	0
			%	14.09	23.5	0.00

Note :Sample 250 HH



Household Assets in the Rehabilitated Area

Sl No	District	Mandal	Village	Pre Project										
				Tractor	Plough	Oil Engine EM	Pump set	Cultivator	Weeder	Duster	Thresher	Sprayer	Bullock cart	Others
1	Medak	Manoor	New Bellapur		1		1					4	3	
2	Medak	Manoor	Pulukurthy		9				4			4	5	
3	Medak	Munipalli	Beluru	1	12							10	9	
4	Medak	Munipalli	Marthakeswaram										2	
5	Medak	Pulkal	Koduru		9	7	8					21	5	
6	Medak	Pulkal	Singur										1	
7	Medak	Raikode	Doulthabad		4									
8	Medak	Raikode	Sirur		1							1	3	1
9	Medak	Regod	Nirjapla										3	
10	Medak	Regod	Usirkapally										2	
			Total	1	36	7	9	0	4	0	0	40	33	1
			%	0.40	14.40	2.80	3.60	0.00	1.60	0.00	0.00	16.00	13.20	0.40

Note :Sample 250 HH

Contd...



Household Assets in the Rehabilitated Area

Sl No	District	Mandal	Village	Post - Project										
				Tractor	Plough	Oil Engine EM	Pumpset	Cultivator	Weeder	Duster	Thresher	Sprayer	Bullock cart	Others
1	Medak	Manoor	New Bellapur	2	2	1	2					6	1	
2	Medak	Manoor	Pulukurthy		3	2			3			1		
3	Medak	Munipalli	Beluru	3	5	1						5	6	
4	Medak	Munipalli	Marthakeswaram	1	1			1						
5	Medak	Pulkal	Koduru	5	13	19	17	5	4	5	4	18	4	2
6	Medak	Pulkal	Singur								2		1	
7	Medak	Raikode	Doulthabad		1		1						2	
8	Medak	Raikode	Sirur			1						2	2	
9	Medak	Regod	Nirjapla										1	
10	Medak	Regod	Usirkapally										1	
			Total	11	25	24	20	6	7	5	6	32	18	2
			%	5.00	11.36	10.91	9.09	2.73	3.18	2.27	2.73	14.55	8.18	0.91

Note :Sample 250 HH



Annexure V.30

Pre-Project Cropping Pattern in the Rehabilitated Area

Sl No	Crop	Kharif			Rabi			Total		
		Area in ha	Aveg Yield, q/ha	% Area in Kharif	Area in ha	Aveg Yield, q/ha	% Area in Rabi	Area in ha	Aveg Yield, q/ha	% Total Sown Area
1	Bengalgram	3.16	9.86	0.8	215.50	28.01	81.8	218.66	27.75	33.5
2	Blackgram	44.6	12.00	11.5	7.09	26.91	2.7	51.68	14.04	7.9
3	Chillies	0.00		0.0	0.14	28.23	0.1	0.14	28.23	0.0
4	Cotton	31.19	12.55	8.0	0.00			31.19	12.55	4.8
5	Greengram	36.92	12.37	9.5	0.57	31.76	0.2	37.49	12.66	5.7
6	Groundnut	8.99	18.97	2.3	15.52	46.23	5.9	24.51	36.23	3.8
7	Jowar	15.55	14.92	4.0	20.08	25.27	7.6	35.62	20.75	5.5
8	Maize	15.35	17.21	3.9	0.00			15.35	17.21	2.4
9	Paddy	65.22	81.12	16.8	2.83	80.10	1.1	68.06	81.08	10.4
10	Ragi	0.97	8.23	0.2	0.00			0.97	8.23	0.1
11	Redgram	160.64	17.41	41.3	0.57	21.17	0.2	161.21	17.42	24.7
12	Sunflower	0.00		0.0	0.28	14.11	0.1	0.28	14.11	0.0
13	Sugarcane	6.56	417.16	1.7	0.85	91.74	0.3	7.41	379.81	1.1
	Total	389.15		100.0	263.42		100	652.57		100
						Total Land Holding		559.86	CI,%	116.6



Annexure V.31

Post-Project Cropping Pattern in the Rehabilitated Area

Sl No	Crop	Kharif			Rabi			Total		
		Area in ha	Ave Yield, q/ha	% Area in Kharif	Area in ha	Ave Yield, q/ha	% Area in Rabi	Area in ha	Ave Yield, q/ha	% Total Sown Area
1	Bengalgram	1.02		0.6	25.06		26.9	26.09	0.00	9.7
2	Blackgram	16.38		9.3	5.26		5.6	21.64	0.00	8.0
3	Chillies	0.29		0.2	0.00		0.0	0.29	0.00	0.1
4	Cotton	8.48		4.8	0.00			8.48	0.00	3.1
5	Greengram	55.47		31.4	0.00		0.2	55.47	0.00	20.5
6	Groundnut	1.90		1.1	34.11		36.6	36.01	0.00	13.3
7	Jowar	7.52		4.2	18.42		19.8	25.94	0.00	9.6
8	Maize	1.76		1.0	0.89			2.65	0.00	1.0
9	Paddy	40.30		22.8	5.87		6.3	46.17	0.00	17.1
10	Ragi	0.29		0.2	0.00			0.29	0.00	0.1
11	Redgram	37.36		21.1	1.21		1.3	38.57	0.00	14.6
12	Sunflower	0.00		0.0	1.21		1.3	1.21	0.00	0.4
13	Sugarcane	6.14		3.5	1.21		1.3	7.36	0.00	2.7
	Total	176.91		100.0	93.26		99.0	270.17	0.00	100.0
						Total Land Holding		248.14	CI,%	108.9



Annexure V.32

Production and Productivity in the Rehabilitated Area

Sl No	Crop	Pre Project				Post Project			
		Area, ha	Ave Yield, q/ha	Total Production q/ha	% Area	Area, ha	Ave Yield, q/ha	Total Production q/ha	% Area
1	Bengalgram	218.66	4.40	961.99	33.5	23.09	10.69	246.88	9.7
2	Blackgram	51.68	2.62	135.30	7.9	18.64	7.73	144.05	8.0
3	Chillies	0.14	3.39	0.47	0.0	0.29	17.28	5.01	0.1
4	Cotton	31.19	0.84	26.20	4.8	5.48	6.37	34.92	3.1
5	Greengram	37.49	2.83	105.98	5.7	51.44	9.52	489.71	20.5
6	Groundnut	24.51	9.38	230.00	3.8	33.01	21.81	719.88	13.3
7	Jowar	35.62	4.57	162.69	5.5	22.94	13.18	302.26	9.6
8	Maize	15.35	36.83	565.31	2.4	2.65	47.26	125.25	1.0
9	Paddy	68.06	37.15	2,528.09	10.4	43.17	69.83	3,014.65	17.1
10	Ragi	0.97	4.63	4.49	0.1	0.00	0.00	0.00	0.1
11	Redgram	161.21	1.51	242.94	24.7	38.86	5.44	209.94	14.3
12	Sunflower	0.28	15.40	4.31	0.0	1.21	14.57	17.63	0.4
13	Sugarcane	7.41	8.17	60.50	1.1	7.36	9.29	68.39	2.7
	Total	652.57	131.70	5,028.30	100.0	248.14	232.98	5,378.57	100.0



Livestock Population in the Rehabilitated Area

Sl No	District	Mandal	Village	Cows		She- Buffaloes		He- Buffaloes		Calves		Bullocks		Sheep		Goat		Pig		Poultry	
				Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Medak	Manoor	New Bellapur	15	7	17	13	1		13	12	8	2	3	2	6	4				
2	Medak	Manoor	Pulukurthy	10		19	7	1		11	2	9	3	6		8	1	2	1		
3	Medak	Munipalli	Beluru	15	3	17	17	2	1	8	13	10	5	10	5	13	6		1		
4	Medak	Munipalli	Marthakeswaram	7		12	3			1	1	16	6								
5	Medak	Pulkal	Koduru	24	22	20	19	2	2	14	4	7	6	11	10	3	4				
6	Medak	Pulkal	Singur	7	1	13	5			11	3	12	1	6	5	1	2				
7	Medak	Raikode	Doulthabad	4	1	9	7			5	4	6	3	2	2	2	1	1			
8	Medak	Raikode	Sirur	8	4	13	8	1		5	4	9	3	5	2	4	4				
9	Medak	Regod	Nirjapla	10	1	12	1					16	3					1			
10	Medak	Regod	Usirkapally	4		11	1			2		14	2	1		7					
	Sub Total			104	39	143	81	7	3	70	43	107	34	44	26	44	22	4	2	0	0
	% of HH possessing Livestock			41.6	15.6	57.2	32.4	2.8	1.2	28.0	17.2	42.8	13.6	17.6	10.4	17.6	8.8	1.6	0.8	0.0	0.0

Note :Sample 250 HH



Annexure V.34

No. of
Animals

Possession of Livestock Population during Pre and Post Project Situation by Sample Households

Sl No	District	Mandal	Village	Cows		She- Buffaloes		He- Buffaloes		Calves		Bullocks		Sheep		Goat		Pig		Poultry	
				Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Medak	Manoor	New Bellapur	56	8	80	32	1		32	14	17	3	70	12	59	61				
2	Medak	Manoor	Pulukurthy	12		38	11	1		17	2	18	6	40		40	1	3	1		
3	Medak	Munipalli	Beluru	20	3	52	46	2	1	13	16	19	8	48	16	68	19		1		
4	Medak	Munipalli	Marthakeswaram	13		21	3			1	2	32	12								
5	Medak	Pulkal	Koduru	35	33	35	39	2	2	17	7	10	9	50	52	23	49				
6	Medak	Pulkal	Singur	20	2	53	14			18	4	23	2	90	95	2	3				
7	Medak	Raikode	Doulthabad	23	2	15	13			9	9	12	6	40	4	19	2	2			
8	Medak	Raikode	Sirur	18	6	41	19	1		9	6	18	7	30	6	35	5				
9	Medak	Regod	Nirjapla	91	2	41	2					46	6					15			
10	Medak	Regod	Usirkapally	6		20	1			4		28	4	20		35					
	Sub Total			294	56	396	180	7	3	120	60	223	63	388	185	281	140	20	2	0	0
	Ave. No of Animals per HH			1.18	0.22	1.58	0.72	0.03	0.01	0.48	0.24	0.89	0.25	1.55	0.74	1.12	0.56	0.08	0.01	0.00	0.00
	No of Animals per 100 HH			118	22	158	72	3	1	48	24	89	25	155	74	112	56	8	1	0	0

Note :Sample 250 HH



Annexure V.35

Pre-Project Cropping Pattern in the Partially Affected Area

SI No	Crop	KHARIF			RABI			Total		
		Area, ha	Ave Yield, q/ha	% Area in Kharif	Area, ha	Ave Yield, q/ha	% Area in Rabi	Area, ha	Ave Yield, q/ha	% Total Sown Area
1	Bengalgram	7.29	4.62	4.4	19.17	4.52	18.5	26.45	4.55	9.9
2	Blackgram	15.85	3.42	9.6	14.28	3.85	13.8	30.13	3.63	11.2
3	Chillies	2.91	3.29	1.8	0.00			2.91	3.29	1.1
4	Cotton	6.56	1.02	4.0	0.68	1.24	0.7	7.24	1.04	2.7
5	Greengram	50.41	3.14	30.6	0.68	9.88	0.7	51.09	3.24	19.0
6	Groundnut	0.91	9.51	0.6	23.98	9.18	23.2	24.89	9.19	9.3
7	Jowar	11.30	4.69	6.8	40.30	7.26	38.9	51.60	6.73	19.2
8	Paddy	25.32	37.23	15.4	1.02	38.41	1.0	26.34	37.27	9.8
9	Ragi	12.39	4.94	7.5	3.40	4.69	3.3	15.79	4.88	5.9
10	Redgram	16.35	1.97	9.9	0.00			16.35	1.97	6.1
11	Sugarcane	15.67	685.86	9.5	0.00			15.67	685.86	5.8
	Total	164.96		100.0	103.51		100.0	268.47		100.0
						Total Land Holding		232.86	CI, %	115.3



Annexure V.36

Post-Project Cropping Pattern in the Partially Affected Area

Sl No	Crop	KHARIF			RABI			Total		
		Area, ha	Ave Yield, q/ha	% Area in Kharif	Area, ha	Ave Yield, q/ha	% Area in Rabi	Area, ha	Ave Yield, q/ha	% Total Sown Area
1	Bengalgram	2.93	10.97	3.8	6.98	11.24	13.8	9.90	11.15	7.8
2	Blackgram	1.81	8.06	2.4	12.61	8.45	25.0	14.42	8.39	11.3
3	Chillies									
4	Cotton	6.49	6.42	8.5	1.08	7.41	2.1	7.57	6.54	6.0
5	Greengram	23.51	8.99	30.6				23.51	8.99	18.5
6	Groundnut				16.39	22.07	32.5	16.39	22.07	12.9
7	Jowar	6.44	12.44	8.4	6.85	13.36	13.6	13.28	12.87	10.4
8	Maize	0.29	37.05	0.4				0.29	0.00	0.2
9	Paddy	18.57	69.32	24.2	6.49	71.58	12.9	25.06	69.82	19.7
10	Ragi									
11	Redgram	7.71	5.62	10.0				7.71	5.62	6.1
12	Sugarcane	9.07	910.61	11.8				9.07	910.61	7.1
	Total	76.82		100.0	50.39		100.0	127.22		100.0
						Total Land Holding		112.14	Cl, %	113.4



Annexure V.37

Production and Productivity in the Partially Rehabilitated Area

Sl No	Crop	Pre Projectr				Post Project			
		Area, ha	Ave Yield, q/ha	Total Production q/ha	% Area	Area, ha	Ave Yield, q/ha	Total Production q/ha	% Area
1	Bengalgram	26.45	4.55	120.30	9.9	9.90	11.15	110.39	7.8
2	Blackgram	30.13	3.63	109.41	11.2	14.42	8.39	120.98	11.3
3	Chillies	2.91	3.29	9.60	1.1			0.00	
4	Cotton	7.24	1.04	7.55	2.7	7.57	6.54	49.51	6.0
5	Greengram	51.09	3.24	165.52	19.0	23.51	8.99	211.35	18.5
6	Groundnut	24.89	9.19	228.64	9.3	16.39	22.07	361.73	12.9
7	Jowar	51.60	6.73	347.32	19.2	13.28	12.87	170.91	10.4
8	Maize					0.29	7.05	10.74	0.2
9	Paddy	26.34	37.27	981.96	9.8	25.06	69.82	1,749.69	19.7
10	Ragi	15.79	4.88	77.11	5.9			0.00	
11	Redgram	16.35	1.97	32.23	6.1	7.71	5.62	43.33	6.1
12	Sugarcane	15.67	685.86	10,746.00	5.8	9.07	910.61	8,259.23	7.1
	Total	268.47		12,825.63	100.0	127.22		11,087.86	100.0



Annexure V.38

Livestock Population in the Partially Affected Area

No. of HH

Sl No	District	Mandal	Village	Cows		Bullocks		Buffaloes		Sheep		Goat		Pig		Poultry	
				Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Medak	Manoor	Badalgam	4		3		10	6			1					
2	Medak	Munipally	Cheelapalli	1	1	3	2	7	5	3	4	1	1				
3	Medak	Pulkal	Pulkal	3		4	1	8	6								
4	Medak	Raikode	Pampad	5	4	8	4	8	7	3		1					1
5	Medak	Raikode	Shapoor	2		2		3	4	3		1					2
6	Medak	Regod	Tattipally	9	1	7	1	4	2							1	1
	Sub Total			24	6	27	8	40	30	9	4	4	1	0	0	1	4
	% of HH possessing Livestock			40.0	10.0	45.0	13.3	66.7	50.0	15.0	6.7	6.7	1.7	0.0	0.0	1.7	6.7

Note :Sample 60 HH



Annexure V.39

No. of
Animals

Livestock Population in the Partially Affected Area

Sl No	District	Mandal	Village	Cows		Bullocks		Buffaloes		Sheep		Goat		Pig		Poultry	
				Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Medak	Manoor	Badalgam	7		6		24	9			2					
2	Medak	Munipally	Cheelapalli	2	1	6	4	25	15	49	125	10	30				
3	Medak	Pulkal	Pulkal	23		16	2	46	25								
4	Medak	Raikode	Pampad	45	13	44	8	54	31	100		40					4
5	Medak	Raikode	Shapoor	3		4		10	13	34		10					3
6	Medak	Regod	Tattipally	20	2	13	2	7	4							4	1
	Sub Total			100	16	89	16	166	97	183	125	62	30	0	0	4	8
	<i>Ave. No of Animals per HH</i>			<i>1.67</i>	<i>0.27</i>	<i>1.48</i>	<i>0.27</i>	<i>2.77</i>	<i>1.62</i>	<i>3.05</i>	<i>2.08</i>	<i>1.03</i>	<i>0.50</i>	<i>0.00</i>	<i>0.00</i>	<i>0.07</i>	<i>0.13</i>
	No of Animals per 100 HH			167	27	148	27	277	162	305	208	103	50	0	0	7	13

Note :Sample 60 HH



Annexure VIII.1

List of trees and shrubs found in the catchment area.

Latin name	Vernacular name	Family
<i>Acacia auriculiformis</i>	Australian Wattle	Mimosaceae
<i>Acacia caesia</i>	Kirintha	Mimosaceae
<i>Acacia farnesiana</i>	Muriki thumma	Mimosaceae
<i>Acacia leucophloea</i>	Tella tumma	Mimosaceae
<i>Acacia nilotica</i>	Nalla tumma	Mimosaceae
<i>Acacia planifrons</i>	Godugu Thumma	Mimosaceae
<i>Acacia sundra</i>	Sundra	Mimosaceae
<i>Acaia holosericea</i>	Holosericea	Mimosaceae
<i>Acaia horrida</i>	Parikithumma	Mimosaceae
<i>Aegle marmelos</i>	Maredu	Rutaceae
<i>Ailanthus excelsa</i>	Peddamaanu	Simaroubaceae
<i>Alangium salvifolium</i>	Ooduga	Alangiaceae
<i>Albizia lebbek</i>	Dirisanam	Mimosaceae
<i>Alhagi camelorum</i>	Camel thorn	Fabaceae
<i>Annona squamosa</i>	Custard apple	Annonaceae
<i>Azadirachta indica</i>	Vepa	Meliaceae
<i>Azima tetracantha</i>	Tella Uppili	Salvadoraceae
<i>Bauhinia racemosa</i>	Aare chettu	Caesalpiniaceae
<i>Bauhinia variagata</i>	Mandari	Caesalpiniaceae
<i>Benkara malabarica</i>	Pedda manga	Rubiaceae
<i>Bombax ceiba</i>	Booruga	Bombacaceae
<i>Borassus flabellifer</i>	Taati / Taadi	Araceae
<i>Breynia retusa</i>	Chinna purugudu	Euphorbiaceae
<i>Breynia vitis-ideae</i>	Nalla purugudu	Euphorbiaceae
<i>Butea monosperma</i>	Modugu	Fabaceae
<i>Callistemon citrinus</i>	Indian bottle brush tree	Myrtaceae
<i>Calotropis gigantea</i>	Tella Jilledu	Asclepiadaceae
<i>Calotropis procera</i>	Jilledu	Asclepiadaceae
<i>Canthium dicoccum</i>	Nalla balusu	Rubiaceae
<i>Canthium parviflorum</i>	Balusu	Rubiaceae
<i>Carissa spinarum</i>	Kalivi / Vaaka	Apocynaceae
<i>Cascabela thevetia</i>	Patcha ganneru	Apocynaceae
<i>Cassia auriculata</i>	Caesalpiniaceae	Caesalpiniaceae
<i>Cassia fistula</i>	Rela	Caesalpiniaceae
<i>Catunaregam spinosa</i>	Manga / Chinna manga	Rubiaceae
<i>Chloroxylon sweitenia</i>	Billudu	Flindarsiaceae
<i>Cissus vitiginea</i>	Adavi Gummadi	Vitaceae
<i>Cocos nucifera</i>	Coconut	Araceae
<i>Cordia dichotoma</i>	Bankiriki	Cordiaceae
<i>Cosmostigma racemosum</i>	Adavitamalapaaku	Apocynaceae



Annexure VIII.1

List of trees and shrubs found in the catchment area.

Latin name	Vernacular name	Family
<i>Dalbergia sisso</i>	Sisso or Seesum	Caesalpiniaceae
<i>Decalepis hahiltonii</i>	Maredu kummulu	Periplocaceae
<i>Dendrocalamus strictus</i>	Bamboo / Veduru	Poaceae
<i>Desmodium pulchellum</i>	Deyyapu mokka	Fabaceae
<i>Dichrostachys cinerea</i>	Sara Thumma	Mimosaceae
<i>Diospyros chloroxylon</i>	Ulinda	Ebenaceae
<i>Diospyros melanoxylon</i>	Tunki	Fabaceae
<i>Dodonaea viscosa</i>	Bandedu	Sapindaceae
<i>Erythroxylon monogynum</i>	Dedaraaku	Erythroxylaceae
<i>Eucalyptus teretocronis</i>	Eucalyptus	Myrtaceae
<i>Eucalyptus hybrid</i>	Eucalyptus / Nilagiri	Myrtaceae
<i>Euphorbia caducifolia</i>	Brahma jemudu	Euphorbiaceae
<i>Ficus benghalensis</i>	Marri	Moraceae
<i>Ficus racemosa</i>	Medi	Moraceae
<i>Ficus religiosa</i>	Raavi	Moraceae
<i>Glycomis mauritiana</i>	Tanaka	Rutaceae
<i>Grewia flavescens</i>	Jaana	Tiliaceae
<i>Grewia hirsuta</i>	Jaani Chettu	Tiliaceae
<i>Grewia obtusa</i>	Jaana	Tiliaceae
<i>Grewia orbiculata</i>	Pedda Jaani	Tiliaceae
<i>Grewia tillifolia</i>	Pedda Jaana	Tiliaceae
<i>Grewia villosa</i>	Bantha	Tiliaceae
<i>Hardwickia binata</i>	Yepi	Caesalpiniaceae
<i>Hemidemus indicus</i>	Sugandhapala	Periplocaceae
<i>Holoptelia integrifolia</i>	Nemali naara	Ulmaceae
<i>Ipomoea carnea</i>	Rubber mokka	Convolvulaceae
<i>Lagerstroemia parviflora</i>	Chennangi	Lythraceae
<i>Lantana camara</i>	Lantana	Verbenaceae
<i>Leptadenia reticulata</i>	Mukkupala Teega	Asclepiadaceae
<i>Leucaena leucocephala</i>	Subabul	Mimosaceae
<i>Limonia acidissima</i>	Velaga	Rutaceae
<i>Mangifera indica</i>	Mamidi	Anacardiaceae
<i>Maytenus emerginata</i>	Danti	Celastraceae
<i>Mimosa polyancistra</i>	Thumma	Mimosaceae
<i>Mimosa rubicaulis</i>	Pariki kampa	Mimosaceae
<i>Mimosops elengi</i>	Pogada	Sapotaceae
<i>Morinda pubescens</i>	Togaru	Rubiaceae
<i>Moringa olivaefera</i>	Munaga	Moringaceae
<i>Muntingia calabura</i>	Wild cherry	Elaeocarpaceae
<i>Parkinsonia aculeata</i>	Jeeluga	Widespread



Annexure VIII.1

List of trees and shrubs found in the catchment area.

Latin name	Vernacular name	Family
<i>Peltophorum pterocarpum</i>	Konda chinta	Caesalpiniaceae
<i>Pergularia daemia</i>	Dustapa teega	Asclepiadaceae
<i>Phoenix sylvestris</i>	Eetha	Araceae
<i>Phyllanthus emblica</i>	Usiri	Euphorbiaceae
<i>Phyllanthus reticulatus</i>	Pulasari / Puliseru	Euphorbiaceae
<i>Pithecellobium dulce</i>	Seema chinta	Mimosaceae
<i>Plumeria alba</i>	Tella devaganneru	Apocynaceae
<i>Plumeria rubra</i>	Erra devaganneru	Apocynaceae
<i>Polyalthia longifolia</i>	Ashoka	Annonaceae
<i>Polyalthia pendula</i>	Asoka	Annonaceae
<i>Pongamia pinnata</i>	Ganuga	Fabaceae
<i>Prosopis juliflora</i>	English tumma	Mimosaceae
<i>Prosopis spicigera</i>	Jammi chettu	Mimosaceae
<i>Rauwolfia tetraphylla</i>	Bara Chandrika	Apocynaceae
<i>Samanea saman</i>	Nidrabhangi	Mimosaceae
<i>Sapindus emarginatus</i>	Kunkundu	Sapindaceae
<i>Spathodea companulata</i>	Flame of the forest	Bignoniaceae
<i>Sterculia foetida</i>	Adavi badam	Sterculiaceae
<i>Syzigium cumini</i>	Neradu	Myrtaceae
<i>Tamarindus indica</i>	Chinta	Caesalpiniaceae
<i>Tecoma stanns</i>	Patcha turai	Bignoniaceae
<i>Tectona grandis</i>	Teak / Teku	Verbenaceae
<i>Terenna asiatica</i>	Kommi	Rubiaceae
<i>Terminalia arjuna</i>	Tella maddi	Combretaceae
<i>Thespecia populnea</i>	Ganga Raavi	Malvaceae
<i>Tylophora indica</i>	Kukkapala teega	Asclepiadaceae
<i>Vitex negundo</i>	Vaavili	Verbenaceae
<i>Wattakaka volubilis</i>	Tummudu teega	Asclepiadaceae
<i>Ziziphus numularia</i>	Gotti	Rhamnaceae
<i>Ziziphus rugosus</i>	Regu	Rhamnaceae



Annexure VIII.2

List of grasses and sedges found in the project area.

Scientific name	Family	Importance
<i>Alloteropsis cimicina</i>	Poaceae	Fodder
<i>Andropogon jwarancusa</i>	Poaceae	Fodder grass
<i>Aristida depressa</i>	Poaceae	Fodder
<i>Aristida hystrix</i>	Poaceae	Fodder in early stages
<i>Aristida setacea</i>	Poaceae	Used for making brooms
<i>Bothriochloa pertusa</i>	Poaceae	Fodder grass
<i>Brachiaria cruciformis</i>	Poaceae	Fodder grass
<i>Brachiaria distachya</i>	Poaceae	Fodder grass
<i>Brachiaria mutica</i>	Poaceae	Fodder grass
<i>Brachiaria reptans</i>	Poaceae	Fodder grass
<i>Bulbostylis barbata</i>	Cyperaceae	Fodder
<i>Cenchrus ciliaris</i>	Poaceae	Fodder grass
<i>Chloris barbata</i>	Poaceae	Fodder grass
<i>Chloris montana</i>	Poaceae	Fodder grass
<i>Chrysopogon fulvus</i>	Poaceae	Fodder grass
<i>Cymbopogon coloratus</i>	Poaceae	Aromatic non palatable perennial grass
<i>Cymbopogon caesius</i>	Poaceae	Aromatic non palatable perennial grass
<i>Cynodon dactylon</i>	Poaceae	Palatable fodder and soil binder
<i>Cyperus aristatus</i>	Cyperaceae	Palatable sedge
<i>Cyperus iria</i>	Cyperaceae	Palatable sedge
<i>Cyperus rotundus</i>	Cyperaceae	Nut grass, a notorious weed
<i>Dactyloctenium aegyptium</i>	Poaceae	Palatable fodder and soil binder
<i>Dactyloctenium aristatam</i>	Poaceae	Palatable fodder and soil binder
<i>Dichanthium annulatum</i>	Poaceae	Palatable fodder grass
<i>Dichanthium caricosum</i>	Poaceae	Palatable fodder grass
<i>Digitaria abludens</i>	Poaceae	Palatable fodder grass
<i>Digitaria bicornis</i>	Poaceae	Palatable fodder grass
<i>Digitaria ciliaris</i>	Poaceae	Palatable fodder grass
<i>Digitaria setigera</i>	Poaceae	Palatable fodder grass
<i>Digitaria tomentosa</i>	Poaceae	Palatable fodder grass
<i>Dinebra retroflexa</i>	Poaceae	Palatable fodder grass
<i>Echinochloa colona</i>	Poaceae	Palatable fodder grass
<i>Echinochloa crus-galli</i>	Poaceae	Palatable fodder grass
<i>Eleusine indica</i>	Poaceae	Palatable fodder grass
<i>Eragrostis ciliaris</i>	Poaceae	Palatable fodder grass
<i>Eragrostis gangetica</i>	Poaceae	Palatable fodder grass
<i>Eragrostis maderaspatana</i>	Poaceae	Palatable fodder grass
<i>Eragrostis pilosa</i>	Poaceae	Palatable fodder grass
<i>Eragrostis tenella</i>	Poaceae	Palatable fodder grass
<i>Eragrostis tenuifolia</i>	Poaceae	Palatable fodder grass
<i>Eremopogon faveolatus</i>	Poaceae	Palatable fodder grass



Annexure VIII.2

List of grasses and sedges found in the project area.

Scientific name	Family	Importance
<i>Fimbristylis acuminata</i>	Cyperaceae	Fodder
<i>Fimbristylis dichotoma</i>	Cyperaceae	Fodder
<i>Heteropogon contortus</i>	Poaceae	Fodder when young
<i>Iseilema laxum</i>	Poaceae	Fodder grass
<i>Iseilema prostratum</i>	Poaceae	Fodder grass
<i>Kyllinga triceps</i>	Cyperaceae	Fodder
<i>Leptochloa chinensis</i>	Poaceae	Fodder grass
<i>Oryza sativa</i>	Poaceae	Paddy
<i>Panicum miliaceum</i>	Poaceae	Fodder grass
<i>Panicum miliare</i>	Poaceae	Fodder grass
<i>Panicum montanum</i>	Poaceae	Fodder grass
<i>Panicum psilopodium</i>	Poaceae	Fodder grass
<i>Panicum repens</i>	Poaceae	Fodder grass
<i>Panicum typheron</i>	Poaceae	Fodder grass
<i>Paspalidium flavidum</i>	Poaceae	Fodder grass
<i>Paspalum scrobiculatum</i>	Poaceae	Fodder grass
<i>Pennisetum typhoides</i>	Poaceae	Grown as a minor millet
<i>Perotis indica</i>	Poaceae	Fodder grass
<i>Scirpus barbatus</i>	Cyperaceae	Fodder
<i>Scirpus chinensis</i>	Cyperaceae	Fodder
<i>Scirpus squarrosus</i>	Cyperaceae	Fodder
<i>Setaria intermedia</i>	Poaceae	Fodder grass
<i>Setaria italica</i>	Poaceae	Fodder grass
<i>Setaria tomentosa</i>	Poaceae	Fodder grass
<i>Sporobolus coromandelianus</i>	Poaceae	Fodder grass
<i>Sporobolus diander</i>	Poaceae	Fodder grass
<i>Sporobolus indicus</i>	Poaceae	Fodder grass
<i>Tragus biflorus</i>	Poaceae	Fodder grass
<i>Urochloa panicoides</i>	Poaceae	Fodder grass
<i>Urochloa reptans</i>	Poaceae	Fodder grass



Annexure VIII.3

List of herbaceous plant resources found in the project area during the rainy season.

Name of species	Family	Importance
<i>Abelmoschus esculentus</i>	Malvaceae	Vegetable
<i>Abrus precatorius</i>	Fabaceae	Medicinal
<i>Abutilon crispum</i>	Malvaceae	Non palatable weed
<i>Abutilon indicum</i>	Malvaceae	Non palatable weed
<i>Acalypha indica</i>	Euphorbiaceae	Medicinal
<i>Acalypha lanceolata</i>	Euphorbiaceae	Non palatable weed
<i>Acalypha paniculata</i>	Euphorbiaceae	Non palatable weed
<i>Achyranthes aspera</i>	Amaranthaceae	Medicinal
<i>Adhatoda vasica</i>	Acanthaceae	Medicinal
<i>Aerva lanata</i>	Amaranthaceae	Medicinal
<i>Aerva tomentosa</i>	Amaranthaceae	Medicinal
<i>Ageratum conyzoides</i>	Asteraceae	Non palatable weed
<i>Allamania longepedunculata</i>	Amaranthaceae	Fodder
<i>Aloe barbadensis</i>	Liliaceae	Leaf fiber and soil binder
<i>Aloe vera</i>	Liliaceae	Medicinal
<i>Alternanthera pungens</i>	Amaranthaceae	Leafy vegetable
<i>Alternanthera traindra</i>	Amaranthaceae	Leafy vegetable
<i>Alysicarpus longifolius</i>	Fabaceae	Fodder legume
<i>Alysicarpus monilifer</i>	Fabaceae	Fodder legume
<i>Alysicarpus vaginalis</i>	Fabaceae	Fodder legume
<i>Amaranthus polygamus</i>	Amaranthaceae	Leafy vegetable
<i>Amaranthus spinosus</i>	Amaranthaceae	Non palatable weed
<i>Amaranthus tricolor</i>	Amaranthaceae	Grown as an ornamental
<i>Amaranthus viridis</i>	Amaranthaceae	Non palatable weed
<i>Ammania baccifera</i>	Lythraceae	Medicinal
<i>Andrographis echinoides</i>	Acanthaceae	Fodder
<i>Andrographis paniculata</i>	Acanthaceae	Medicinal
<i>Antigonon leptopus</i>	Polygalaceae	Wild ornamental climber
<i>Argemone mexicana</i>	Papaveraceae	Medicinal
<i>Aristolochia bracteata</i>	Aristolochiaceae	Medicinal
<i>Aristolochia indica</i>	Aristolochiaceae	Medicinal
<i>Aschynomene indica</i>	Fabaceae	Fodder legume
<i>Asystasia gangetica</i>	Acanthaceae	Medicinal
<i>Barleria cristata</i>	Acanthaceae	Wild prickly ornamental
<i>Barleria prionitis</i>	Acanthaceae	Grown as an ornamental
<i>Biophytum sensitivum</i>	Geraniaceae	Medicinal
<i>Blepharis repens</i>	Acanthaceae	Fodder
<i>Blepharis molluginifolia</i>	Acanthaceae	Fodder
<i>Blumea virens</i>	Asteraceae	Non palatable winter weed



Annexure VIII.3

List of herbaceous plant resources found in the project area during the rainy season.

Name of species	Family	Importance
<i>Boerhaavia chinensis</i>	Nyctaginaceae	Fodder
<i>Boerhaavia diffusa</i>	Nyctaginaceae	Medicinal
<i>Borreria hispida</i>	Rubiaceae	Fodder
<i>Cajanus cajan</i>	Fabaceae	Red gram
<i>Capsicum frutescens</i>	Solanaceae	Chillies
<i>Cassia occidentalis</i>	Caesalpinaceae	Non palatable legume
<i>Cassia tora</i>	Caesalpinaceae	Non palatable legume
<i>Cassytha filiformis</i>	Lauraceae	Medicinal
<i>Catharanthus roseus</i>	Apocyanaceae	Medicinal
<i>Celosia cristata</i>	Amaranthaceae	Fodder
<i>Centella asiatica</i>	Umbelliferae	Medicinal
<i>Cissus quadrangularis</i>	Ampelidaceae	Medicinal
<i>Citrullus colocynthis</i>	Cucurbitaceae	Medicinal
<i>Citrullus vulgaris</i>	Cucurbitaceae	Edible fruit
<i>Cleome aspera</i>	Capparidaceae	Non-palatable weed with medicinal properties
<i>Cleome gynandra</i>	Capparidaceae	Non-palatable weed with medicinal properties
<i>Cleome monophylla</i>	Capparidaceae	Non-palatable weed with medicinal properties
<i>Cleome viscosa</i>	Capparidaceae	Non-palatable weed with medicinal properties
<i>Clitoria ternatea</i>	Fabaceae	Medicinal
<i>Coccinia cordifolia</i>	Cucurbitaceae	Medicinal
<i>Commelina benghalensis</i>	Commelinaceae	Fodder
<i>Commelina undulata</i>	Commelinaceae	Fodder
<i>Conyza stricta</i>	Asteraceae	Non-palatable weed
<i>Corchorus aestuans</i>	Tiliaceae	Fodder
<i>Corchorus tridens</i>	Tiliaceae	Fodder
<i>Corchorus trilocularis</i>	Tiliaceae	Fodder
<i>Coriandrum sativum</i>	Umbelliferae	Coriander leaves and fruits are edible
<i>Cosmos bipinnatus</i>	Asteraceae	Ornamental
<i>Cressa cretica</i>	Convolvulaceae	Non-palatable weed
<i>Crinum asiticum</i>	Amaryllidaceae	Ornamental
<i>Crotalaria medicaginea</i>	Fabaceae	Medicinal
<i>Crotalaria paniculata</i>	Fabaceae	Medicinal
<i>Crotalaria prostrata</i>	Fabaceae	Fodder
<i>Crotalaria verrucosa</i>	Fabaceae	Medicinal
<i>Croton bonplandianum</i>	Euphorbiaceae	Non-palatable weed
<i>Cuscuta chinensis</i>	Lythraceae	Stem parasite
<i>Cyanotis axillare</i>	Commelinaceae	Weed
<i>Cyanotis cristata</i>	Commelinaceae	Weed
<i>Datura innoxia</i>	Solanaceae	Medicinal



Annexure VIII.3

List of herbaceous plant resources found in the project area during the rainy season.

Name of species	Family	Importance
<i>Datura metel</i>	Solanaceae	Medicinal
<i>Desmodium gangeticum</i>	Fabaceae	Non palatable weed
<i>Desmodium triflorum</i>	Fabaceae	Palatable weed
<i>Digera arvensis</i>	Amaranthaceae	Palatable fodder and Medicinal
<i>Dolichos biflorus</i>	Fabaceae	Palatable fodder
<i>Dolichos lablab</i>	Fabaceae	Horse gram
<i>Duranta repens</i>	Verbenaceae	Grown as a hedge plant
<i>Eclipta alba</i>	Asteraceae	Medicinal
<i>Eclipta prostrata</i>	Asteraceae	Medicinal
<i>Emilia sonchifolia</i>	Asteraceae	Winter weed
<i>Enicostemma hyssopifolium</i>	Gentianaceae	Medicinal
<i>Euphorbia heterophylla</i>	Euphorbiaceae	Ornamental
<i>Euphorbia hirta</i>	Euphorbiaceae	Fodder
<i>Euphorbia pulcherrima</i>	Euphorbiaceae	Ornamental
<i>Euphorbia thymifolia</i>	Euphorbiaceae	Fodder
<i>Evolvulus alsinoides</i>	Convolvulaceae	Medicinal and fodder
<i>Evolvulus nummularis</i>	Convolvulaceae	Fodder
<i>Glycine javanica</i>	Fabaceae	Medicinal
<i>Gomphrena decumbens</i>	Amaranthaceae	Fodder
<i>Gomphrena globosa</i>	Amaranthaceae	Fodder
<i>Gossypium arboreum</i>	Malvaceae	Cotton
<i>Gossypium barbadense</i>	Malvaceae	Cotton
<i>Gossypium herbaceum</i>	Malvaceae	Cotton
<i>Heliotropium curassavicum</i>	Boraginaceae	Medicinal
<i>Heliotropium indicum</i>	Boraginaceae	Medicinal
<i>Heliotropium ovalifolium</i>	Boraginaceae	Weed
<i>Hibiscus micranthus</i>	Malvaceae	Medicinal and ornamental
<i>Hyptis suaveolens</i>	Lamiaceae	Non-palatable aggressive weed
<i>Impatiens balsamiana</i>	Balsamiaceae	Ornamental
<i>Indigofera enneaphylla</i>	Fabaceae	Palatable legume
<i>Indigofera linifolia</i>	Fabaceae	Palatable legume
<i>Indigofera prostrata</i>	Fabaceae	Palatable legume
<i>Indigofera pulchella</i>	Fabaceae	Non-palatable legume
<i>Indigofera viscosa</i>	Fabaceae	Non-palatable legume
<i>Ipomea nil</i>	Convolvulaceae	Twining shrub in forests
<i>Ipomea purpurea</i>	Convolvulaceae	Perennial semi aquatic weed
<i>Ipomoea eriocarpa</i>	Convolvulaceae	Slender climber
<i>Ipomoea angulata</i>	Convolvulaceae	Perennial semi aquatic weed



Annexure VIII.3

List of herbaceous plant resources found in the project area during the rainy season.

Name of species	Family	Importance
<i>Ipomoea carnea</i>	Convolvulaceae	Large perennial shrub
<i>Jasminum grandiflorum</i>	Oleaceae	Ornamental with scented flowers
<i>Jasminum rigidum</i>	Oleaceae	Ornamental with scented flowers
<i>Jasminum sambac</i>	Oleaceae	Ornamental with scented flowers
<i>Jatropha gossypifolia</i>	Euphorbiaceae	Medicinal
<i>Justica glauca</i>	Acanthaceae	Common and grazed
<i>Justica micrantha</i>	Acanthaceae	Common and grazed
<i>Justica procumbens</i>	Acanthaceae	Common and grazed
<i>Justica prostrata</i>	Acanthaceae	Common and grazed
<i>Justica simplex</i>	Acanthaceae	Common and grazed
<i>Justica trinervia</i>	Acanthaceae	Common and grazed
<i>Leucas aspera</i>	Lamiaceae	Medicinal weed
<i>Leucas hirta</i>	Lamiaceae	Weed
<i>Leucas lanata</i>	Lamiaceae	Weed
<i>Malvastrum coromandelianum</i>	Malvaceae	Non palatable weed
<i>Marremia emarginata</i>	Convolvulaceae	Soil binding runner
<i>Merremia tridentata</i>	Convolvulaceae	Medicinal
<i>Mimosa pudica</i>	Mimosaceae	Medicinal
<i>Mollugo nudicaulis</i>	Aizoaceae	Ruderal
<i>Mollugo pentaphylla</i>	Aizoaceae	Ruderal
<i>Neptunia indicum</i>	Mimosaceae	Weed
<i>Neptunia triquetra</i>	Mimosaceae	Weed
<i>Ocimum americanum</i>	Lamiaceae	Aromatic medicinal
<i>Ocimum basillicum</i>	Lamiaceae	Aromatic medicinal
<i>Ocimum gratissimum</i>	Lamiaceae	Aromatic medicinal
<i>Ocimum sanctum</i>	Lamiaceae	Aromatic medicinal
<i>Oldenlandia corymbosa</i>	Rubiaceae	Fodder
<i>Oldenlandia herbaceae</i>	Rubiaceae	Fodder
<i>Oldenlandia umbellata</i>	Rubiaceae	Fodder
<i>Oxalis corniculata</i>	Oxalidaceae	Fodder and vegetable
<i>Oxalis latifolia</i>	Oxalidaceae	Fodder and vegetable
<i>Parthenium hysterophorus</i>	Asteraceae	Notorious allergic weed
<i>Peristrophe bicalyculata</i>	Acanthaceae	Weed
<i>Phaseolus aconitifolius</i>	Fabaceae	Fodder legume
<i>Phaseolus sublobatus</i>	Fabaceae	Fodder legume
<i>Phaseolus trilobus</i>	Fabaceae	Fodder legume
<i>Phyllanthus amarus</i>	Euphorbiaceae	Medicinal
<i>Phyllanthus simplex</i>	Euphorbiaceae	Fodder
<i>Phyllanthus</i>	Euphorbiaceae	Fodder



Annexure VIII.3

List of herbaceous plant resources found in the project area during the rainy season.

Name of species	Family	Importance
<i>maderaspatensis</i>		
<i>Physalis minima</i>	Solanaceae	Fodder and medicinal
<i>Polycarpaea corymbosa</i>	Caryophyllaceae	Medicinal
<i>Polygala chinensis</i>	Polygalaceae	Medicinal
<i>Polygala eiroptera</i>	Polygalaceae	Fodder
<i>Polygala elongata</i>	Polygalaceae	Fodder
<i>Polygala persicariaefolia</i>	Polygalaceae	Medicinal
<i>Portulaca grandiflora</i>	Portulacaceae	Ornamental
<i>Portulaca oleraceae</i>	Portulacaceae	Ornamental
<i>Portulaca quadrifida</i>	Portulacaceae	Fodder
<i>Rhynchosia mimima</i>	Fabaceae	Slender palatable climber
<i>Rhynchosia suaveolens</i>	Fabaceae	Non-palatable legume
<i>Rothia trifoliata</i>	Fabaceae	Fodder
<i>Ruellia tuberosa</i>	Acanthaceae	Very widespread plant with attractive flowers
<i>Rungia repens</i>	Acanthaceae	Fodder
<i>Sanseveria roxburghiana</i>	Liliaceae	Medicinal
<i>Scilla indica</i>	Liliaceae	Non-edible bulbs
<i>Scoparia dulcis</i>	Scrophulariaceae	Medicinal
<i>Senna uniflora</i>	Caesalpinaceae	Most abundant weed
<i>Sesbania aculeata</i>	Fabaceae	Green manure
<i>Sesbania procumbens</i>	Fabaceae	Green manure
<i>Sida acuta</i>	Malvaceae	Non-palatable weed
<i>Sida cordifolia</i>	Malvaceae	Non-palatable weed
<i>Sida rhombifolia</i>	Malvaceae	Non-palatable weed
<i>Solanum anguivi</i>	Solanaceae	Medicinal
<i>Solanum melongena</i>	Solanaceae	Wild egg plant – medicinal
<i>Solanum nigrum</i>	Solanaceae	Egg plant – vegetable
<i>Solanum xanthocarpum</i>	Solanaceae	Medicinal
<i>Sonchus arvensis</i>	Asteraceae	Winter annual
<i>Sonchus oleraceus</i>	Asteraceae	Winter annual
<i>Sphaeranthus indicus</i>	Asteraceae	Medicinal
<i>Striga angustifolia</i>	Scrophulariaceae	Partial root parasite
<i>Striga asiatica</i>	Scrophulariaceae	Partial root parasite
<i>Tephrosia hirta</i>	Fabaceae	Non-palatable legume
<i>Tephrosia procumbens</i>	Fabaceae	Non-palatable legume
<i>Tephrosia roxburghiana</i>	Fabaceae	Non-palatable legume
<i>Tragia involucrata</i>	Euphorbiaceae	Medicinal
<i>Trainthema portulacastrum</i>	Ficoidaceae	Fodder and vegetable



Annexure VIII.3

List of herbaceous plant resources found in the project area during the rainy season.

Name of species	Family	Importance
<i>Trianthema triquetra</i>	Ficoidaceae	Medicinal
<i>Tribulus terrestris</i>	Zygophyllaceae	Medicinal
<i>Trichodesma indicum</i>	Boraginaceae	Medicinal
<i>Tridax procumbens</i>	Asteraceae	Medicinal
<i>Triumfetta pilosa</i>	Euphorbiaceae	Medicinal
<i>Triumfetta rhomboidea</i>	Euphorbiaceae	Medicinal
<i>Uraria picta</i>	Fabaceae	Medicinal
<i>Urginea congesta</i>	Liliaceae	Common weed of shady places
<i>Urginea coromandeliana</i>	Liliaceae	Common weed of shady places
<i>Waltheria indica</i>	Sterculiaceae	Non-palatable weed
<i>Withania somnifera</i>	Solanaceae	Medicinal
<i>Xanthium strumarium</i>	Asteraceae	Medicinal
<i>Zinnia elegans</i>	Asteraceae	Ornamental
<i>Zornia gibbosa</i>	Fabaceae	Fodder



Annexure VIII.4

Relative frequency, Relative density, Relative dominance and Importance Value Indices (IVI) of structural plant species present in the catchment area

Scientific name	Relative			IVI
	Frequency	Density	Dominance	
<i>Acacia auriculiformis</i>	1.1	1.8	1.4	4.3
<i>Acacia caesia</i>	1.2	1.4	1.6	4.2
<i>Acacia farnesiana</i>	1.8	2.1	1.5	5.4
<i>Acacia nilotica</i>	2.1	2.3	1.3	5.7
<i>Acacia planifrons</i>	2.2	2.3	1.4	5.9
<i>Acacia sundra</i>	1.3	1.6	1.2	4.1
<i>Ailanthus excelsa</i>	2.7	2.2	2.7	7.6
<i>Alangium salvifolium</i>	2.1	1.5	2.3	5.9
<i>Alhagi camelorum</i>	2.2	2.8	2.7	7.7
<i>Annona squamosa</i>	1.6	1.4	1.3	4.3
<i>Azima tetracantha</i>	2.2	2.8	1.9	6.9
<i>Bauhinia racemosa</i>	2.6	2.5	2.2	7.3
<i>Benkara malabarica</i>	3.2	2.8	3.1	9.1
<i>Bombax ceiba</i>	1.1	1.4	1.7	4.2
<i>Breynia retusa</i>	1.1	1.2	1.1	3.4
<i>Breynia vitis-ideae</i>	1.4	1.4	1.3	4.1
<i>Butea monosperma</i>	1.2	1.4	1.5	4.1
<i>Calotropis gigantea</i>	1.3	1.5	1.8	4.6
<i>Calotropis procera</i>	2.8	2.6	2.7	8.1
<i>Canthium parviflorum</i>	2.6	2.1	2.7	7.4
<i>Carissa spinarum</i>	2.5	2.8	2.7	8.0
<i>Cassia auriculata</i>	1.4	1.2	1.5	4.2
<i>Cassia fistula</i>	1.2	1.1	1.3	3.6
<i>Catunaregam spinosa</i>	2.3	3.2	2.2	7.7
<i>Cissus vitiginea</i>	1.3	1.1	1.5	3.9
<i>Dalbergia sisso</i>	1.4	1.1	1.3	3.8
<i>Diospyros chloroxylon</i>	1.5	1.0	0.9	3.4
<i>Diospyros melanoxylon</i>	1.6	1.3	1.2	4.1
<i>Dodonaea viscosa</i>	1.8	1.6	1.6	5.0
<i>Eucalyptus teretocronis</i>	1.6	1.3	1.6	4.5
<i>Grewia tillifolia</i>	1.1	1.2	1.3	3.6
<i>Hardwickia binata</i>	1.6	1.8	1.7	5.1
<i>Holoptelia integrifolia</i>	1.2	0.8	1.1	3.1
<i>Ipomoea carnea</i>	5.5	4.4	4.6	14.5
<i>Lantana camara</i>	4.4	4.5	3.4	12.3
<i>Leptadenia reticulata</i>	1.5	1.4	0.9	3.8
<i>Leucaena leucocephala</i>	2.7	4.3	4.7	11.7
<i>Maytenus emerginata</i>	1.3	1.5	1.7	4.5



Annexure VIII.4

Relative frequency, Relative density, Relative dominance and Importance Value Indices (IVI) of structural plant species present in the catchment area

Scientific name	Relative			IVI
	Frequency	Density	Dominance	
<i>Mimosa polyancistra</i>	1.5	1.3	1.3	4.1
<i>Mimosa rubicaulis</i>	1.5	1.4	1.2	4.1
<i>Parkinsonia aculeata</i>	2.3	2.5	2.2	7.0
<i>Peltophorum pterocarpum</i>	2.1	3.3	3.8	9.2
<i>Pergularia daemia</i>	1.6	1.9	1.8	5.3
<i>Phoenix sylvestris</i>	1.4	2.5	1.9	5.8
<i>Pithecellobium dulce</i>	1.7	1.5	1.2	4.4
<i>Prosopis juliflora</i>	4.6	5.3	5.6	15.5
<i>Terenna asiatica</i>	1.6	1.6	1.4	4.6
<i>Tylophora indica</i>	2.1	2.1	2.0	6.2
<i>Vitex negundo</i>	1.3	1.5	1.1	3.9
<i>Wattakaka volubilis</i>	1.1	1.0	1.1	3.2
<i>Ziziphus nummularia</i>	1.3	1.8	1.5	4.6
<i>Ziziphus rugosus</i>	1.5	1.3	1.8	4.6
Shannon – Wiener Index of Diversity				3.874
Simpson's Index of Dominance				0.337
Pielou's Evenness index				0.763



Annexure VIII.5

Relative frequency, Relative density, Relative dominance and Importance Value Indices (IVI) of structural plant species present in the command area

Scientific name	Relative			IVI
	Frequency	Density	Dominance	
<i>Acacia nilotica</i>	2.6	2.1	1.5	6.2
<i>Acacia planifrons</i>	2.9	3.5	3.8	10.2
<i>Ailanthus excelsa</i>	1.4	1.6	1.1	4.1
<i>Alangium salvifolium</i>	3.7	2.4	1.2	7.3
<i>Breynia retusa</i>	6.6	8.3	7.5	22.4
<i>Lantana camara</i>	2.6	2.3	1.3	6.2
<i>Breynia vitis-ideae</i> ,	6.3	8.1	7.2	21.6
<i>Calotropis gigantea</i>	5.3	4.2	5.6	15.1
<i>Calotropis procera</i>	2.3	1.3	1.1	4.7
<i>Canthium parviflorum</i>	6.2	6.4	6.7	19.3
<i>Carissa spinarum</i>	4.4	1.5	5.4	11.3
<i>Terminalia arjuna</i>	2.5	2.1	3.2	7.8
<i>Cassia auriculata</i>	5.7	5.6	4.9	16.2
<i>Catunaregam spinosa</i>	4.8	5.5	3.6	13.9
<i>Parkinsonia aculeata</i>	3.4	2.2	1.8	7.4
<i>Dalbergia sisso</i>	2.6	1.5	4.3	8.4
<i>Peltophorum pterocarpum</i>	5.2	6.2	4.4	15.8
<i>Ipomoea carnea</i>	7.5	9.2	8.6	25.3
<i>Prosopis juliflora</i>	9.5	10.5	10.4	30.4
<i>Alhagi camelorum</i>	3.2	4.2	3.8	11.2
<i>Vitex negundo</i>	3.4	2.5	4.1	10.0
<i>Leptadenia reticulata</i>	7.8	7.2	6.4	21.4
<i>Mimosa rubicaulis</i>	1.3	2.2	2.4	5.9
Shannon – Wiener Index of Diveristy				3.013
Simpson's Index of Dominance				0.671
Pielou's Evevenness index				0.317



Annexure VIII.6

List of vertebrates other than birds found in and around the catchment area.

Common name	Scientific name	Local name
MAMMALS		
House shrew	<i>Suncus murinus tytleri</i>	Chuchu
Savi pygmy shrew	<i>Suncus etruscus microryx</i>	Chuchu
Wild boar	<i>Sus scrofa</i>	Adavi Pandi
Three striped squirrel	<i>Funambulus palmarum</i>	Udatha
Indian crested porcupine	<i>Hystrix indica</i>	Mullapandi
Common Indian rat	<i>Rattus rattus refescens</i>	Yeluka
Common Indian rat	<i>Rattus rattus gangutrianus</i>	Yeluka
Home mouse	<i>Mus musculus tytleri</i>	Yeluka
Mouse	<i>Mus musculus homeurus</i>	Yeluka
Common Indian field mouse	<i>Mus booduga</i>	Yeluka
Indian bush rat	<i>Golunda ellioti myothrix</i>	Yeluka
Bandicoot rat	<i>Nosokia indica indica</i>	Yeluka
Large bandicoot rat	<i>Bandicota indica</i>	Yeluka
Short-nosed fruit bat	<i>Cynopterus sphinx</i>	Gabbilam
Indian pygmy pipistrelle	<i>Pipistrellus mimus mimus</i>	Gabbilam
Greater yellow bat	<i>Scotophilus heathi heathi</i>	Gabbilam
Long-eared bat	<i>Plecotus auritus homochrous</i>	Gabbilam
Rhesus macaque	<i>Macaca mulatta</i>	Kothi
Common red fox	<i>Vulpes vulpes montana</i>	Nakka
Asiatic jackal	<i>Canis aureus</i>	Gunta Nakka
Indian grey mongoose	<i>Herpestes edwardsi</i>	Mungeesa
REPTILES		
Chameleon	<i>Chameleon zeylanicus</i>	Oosaravelli
Cobra	<i>Naja naja</i>	Naagu paamu
Common Indian Krait	<i>Bungarus caeruleus</i>	Katla paamu
Common Indian Monitor	<i>Varanus bengalensis</i> *	Udumu
Garden lizard	<i>Calotes versicolor</i>	Thonda
Giant Blind Snake	<i>Typhlops diardii</i>	Rendu talala paamu
Indian golden gecko	<i>Calodactylodes aureus</i>	Nalli keechu
Indian python	<i>Python molurus</i> *	Kond chiluva
Indian star tortoise	<i>Geochelone elegans</i>	Nakshatra taabelu
Rat snake	<i>Ptyas mucosa</i> / <i>Tripidonatus</i> <i>pisactor</i>	Jerri pothu
Russell's viper	<i>Vipera russelli</i>	Rakta pinjari
Saw scaled viper	<i>Echis carinatus</i>	Pinjari
Slender Blind Snake	<i>Typhlops porrectus</i>	---
Indian wall lizard	<i>Hemidactylus flaviviridis</i>	Balli
Tree Snake	<i>Chrysopelea taprobanica</i>	Pasirika paamu
Whip Snake	<i>Dryphis nasutus</i>	---
AMPHIBIANS		



Annexure VIII.6

List of vertebrates other than birds found in and around the catchment area.

Common name	Scientific name	Local name
Indian Burrowing frog	<i>Sphaerotheca breviceps</i>	Burada kappa
Green Pond Frog	<i>Rana hexadactyla.</i>	Kappa
Common Indian Toad	<i>Bufo melonosticatus</i>	Toad
Tiger Frog	<i>Hoplobatrachus tigerinus (Rana tigerina)</i>	Kappa
Tree Frog	<i>Hyla arboria</i>	Chettu kappa



Annexure VIII.7

Avian fauna of Singur reervoir and its surroundings up to a radius of 15 Km from the reservoir.
Migratory Status: LM = Local migrant; BR = Breeding; R = resident; WM = Winter migrant; and
 SLM = summer local migrant

Abundance Status: C = Common; UC = Uncommon; O = Occasional and R = Rare.

Scientific Name	Common Name	Family	Migratory Status	Abundance Status
<i>Accipiter badius</i>	Shikra	Accipitridae	LM, BR	UC
<i>Elanus caeruleus</i>	Black-shouldered kite	Accipitridae	SLM	UC
<i>Milvus migrans</i>	Black kite	Accipitridae	R, BR	C
<i>Alcedo atthis</i>	Smallblue kingfisher	Alcedinidae	R, BR	C
<i>Ceryle rudis</i>	Lesser pied Kingfisher	Alcedinidae	R, BR	UC
<i>Halcyon smyrnensis</i>	White-Breasted King fisher	Alcedinidae	R, BR	C
<i>Anas poecilorhyncha</i>	Spot-billed duck	Anatidae	LM	C
<i>Dendrocygna javanica</i>	Lesser whistling-duck	Anatidae	WM	UC
<i>Ardea cinerea</i>	Grey Heron	Ardeidae	LM	C
<i>Ardeola grayii</i>	Pond Heron	Ardeidae	R	C
<i>Bubulcus ibis</i>	Cattle Egret	Ardeidae	R, BR	C
<i>Egretta garzetta</i>	Little egret	Ardeidae	LM	C
<i>Hierococcyx varius</i>	Brain fever bird	Ardeidae	R	UC
<i>Ixobrychus cinnamomeus</i>	Chestnut bittern	Ardeidae	SLM	UC
<i>Megalaima haemacephala</i>	Copper smith Barbet	Capitonidae	R, BR	R
<i>Vanellus indicus</i>	Red-wattled lapwing	Charadriidae	R, BR	C
<i>Prinia inornata</i>	Plain prinia	Cisticolidae	R, BR	O
<i>Prinia socialis</i>	Ashy prinia	Cisticolidae	R, BR	UC
<i>Columba livia</i>	Blue rock pigeon	Columbidae	R	C
<i>Streptopelia chinensis</i>	Spotted dove	Columbidae	R, BR	C
<i>Streptopelia decaocto</i>	Eurasian Collared-Dove	Columbidae	R, BR	UC
<i>Streptopelia tranquebarica</i>	Red Collared-Dove	Columbidae	R	C
<i>Streptopelia Senegalensis</i>	Little brown dove	Columbidae	R, BR	C
<i>Coracias benghalensis</i>	Indian roller	Coraciidae	R, BR	C
<i>Corvus splendens</i>	House crow	Corvidae	R, BR	C
<i>Dendrocitta vagabunda</i>	Indian tree pie	Corvidae	R, BR	O



Annexure VIII.7

Avian fauna of Singur reervoir and its surroundings up to a radius of 15 Km from the reservoir.
Migratory Status: LM = Local migrant; BR = Breeding; R = resident; WM = Winter migrant; and
 SLM = summer local migrant

Abundance Status: C = Common; UC = Uncommon; O = Occasional and R = Rare.

Scientific Name	Common Name	Family	Migratory Status	Abundance Status
<i>Eudynamys scolopace</i>	Asian koel	Cuculidae	R, BR	C
<i>Lanius excubitor</i>	Great grey shrike	Daniidae	R, BR	UC
<i>Dicaeum erythrorhynchos</i>	Tickell's flower pecker	Dicaeidae	R, BR	C
<i>Dicrurus macrocercus</i>	Black drongo	Dicruridae	R, BR	C
<i>Aegithinia tiphia</i>	Common Iora	Irenidae	LM	O
<i>Hydrophasianus chrugus</i>	Pheasant tailed Jacana	Jacanidae	LM, BR	UC
<i>Merops orientalis</i>	Small Bee eater	Meropidae	LM, BR	C
<i>Motacilla alba</i>	White wagtail	Motacillidae	LM	C
<i>Motacilla flava</i>	Yellow wagtail	Motacillidae	SLM	C
<i>Motacilla maderaspatensis</i>	Large pied wagtail	Motacillidae	LM	UC
<i>Terpsiphone paradisi</i>	Asian paradise-flycatcher	Muscicapidae	SLM	UC
<i>Nectarinia asiatica</i>	Purple sunbird	Nectariniidae	R, BR	C
<i>Nectarinia zeylonica</i>	Purple-rumped sunbird	Nectariniidae	R, BR	C
<i>Athene brama</i>	Spotted owlet	Noctuidae	R, BR	UC
<i>Oriolus oriolus</i>	Eurasian golden oriole	Oriolidae	SLM	UC
<i>Passer domesticus</i>	House sparrow	Passeridae	R, BR	O
<i>Phalacrocorax carbo</i>	Large Cormorant	Phalacrocoracidae	LM	R
<i>Phalacrocorax niger</i>	Little cormorant	Phalacrocoracidae	R, Br	C
<i>Centropus sinasis</i>	Greater coucal	Phasianidae	R, Br	C
<i>Pericrocotus cinnomomeus</i>	Small Minivet	Phasianidae	LM	C
<i>Psittacula cyanocephala</i>	Blossom headed Parakeet	Psittacidae	R, BR	C
<i>Psittacula krameri</i>	Rose-Ringed Parakeet	Psittacidae	R, BR	C
<i>Pycnonotus cafer</i>	Red-vented bulbul	Pycnonotidae	R, BR	C
<i>Fulica atra</i>	Coot	Rallidae	WM	O
<i>Gallinula chloropus</i>	Indian Moorhen	Rallidae	R, Br	C
<i>Porphyrio porphyrio</i>	Purple moorhen	Rallidae	R, BR	O



Annexure VIII.7

Avian fauna of Singur reervoir and its surroundings up to a radius of 15 Km from the reservoir.
 Migratory Status: LM = Local migrant; BR = Breeding; R = resident; WM = Winter migrant; and
 SLM = summer local migrant

Abundance Status: C = Common; UC = Uncommon; O = Occasional and R = Rare.

Scientific Name	Common Name	Family	Migratory Status	Abundance Status
<i>Amaurornis phoenicurus</i>	White-breasted waterhen	Recurvirostri dae	R, BR	C
<i>Himantopus himantopus</i>	Black-winged stilt	Recurvirostri dae	LM	R
<i>Acridotheres tristis</i>	Common myna	Sturnidae	R, BR	C
<i>Sturnus pagodarum</i>	Brahminy starling	Sturnidae	WM	R
<i>Turdoides caudatus</i>	Common babbler	Timalinae	R, BR	C
<i>Saxicolodites fulicata</i>	Indian robin	Turdinae	R, Br	C
<i>Upupa epops</i>	Common hoopoe	Upupidae	SLM	C



Annexure VIII.8

Checklist of butterflies and moths trapped from the study area.

Scientific Name	Common Name
Family – Nymphalidae	
Subfamily – Satyrinae	
<i>Melanitis leda leda</i> Drury	Common Evening Brown
<i>Ypthima asterope maharatta</i> Moore	Common Three – ring
Subfamily -Acraeinae	
<i>Acraea violae</i> Fabricus	Tawny Coster
Subfamily -Danainae	
<i>Danaus chrysippus chrysippus</i> Linnaeus	Plain Tiger
<i>Danaus genutia genutia</i> Cramer	Striped Tiger
<i>Euploea core core</i> Cramer	Common Crow
<i>Hypolimnias bolina jacintha</i> Drury	Great Egg fly
<i>Hypolimnias misippus</i> Linnaeus	Danaid Egg fly
<i>Phalanta phalantha phalantha</i> Drury	Common Leopard
<i>Precis ontami ontami</i> Linnaeus	Peacock Pansy
<i>Precis hierta hierta</i> Fabricus	Yellow Pansy
<i>Precis lemonias lemonias</i> Linnaeus	Lemon Pansy
<i>Precis orithya ocyale</i> Hubener	Blue Pansy
<i>Symphaedra nais</i> Froster	Baronet
Family -Lycaenidae	
Subfamily -Cretinae	
<i>Curetis bulis</i> Westwood	Bright Sunbeam
Subfamily Polymmatinae	
<i>Castalius rosimon rosimon</i> Fabricus	Common Pierrot
<i>Chilades laius</i> Cramer	Lime Blue
<i>Everes lacturnus syntala</i> Cantlie	Indian Cupid
<i>Freyeria trochylus</i> Freyer	Grass Jewel
<i>Jamides celeno aelianus</i> Fabricus	Common Cerulean
<i>Tarucus nara</i> Kollar	Rounded Pierrot
Family -Pieridae	
Subfamily -Pierinae	
<i>Anaphaeis aurota aurota</i> Fabricus	Pioneer
<i>Colotis danae danae</i> Fabricus	Crimson Tip
<i>Colotis etrida</i> Boisduval	Small or Little Orange Tip
<i>Colotis eucharis eucharis</i> Fabricus	Plain Orange Tip
<i>Delias eucharis</i> Drury	Common Jezebel
<i>Ixias ontamin</i> Cramer	White Orange Tip
<i>Ixias pyrene sesia</i> Fabricus	Yellow Orange Tip
Subfamily -Coliadinae	
<i>Catopsilia contam</i> Fabricus	Common Emigrant



Annexure VIII.8

Checklist of butterflies and moths trapped from the study area.

Scientific Name	Common Name
<i>Eurema hecabe contamin</i> Moore	Common Grass Yellow
Family -Hesperiidae	
Subfamily -Coeliadinae	
<i>Badamia exclamationis</i> Fabricus	Brown Awl
Subfamily -Hesperiinae	
<i>Borbo bevani</i> Moore	Bevan's Swift
Family -Papilionidae	
Subfamily -Papilioninae	
<i>Pachliopta hector</i> Linnaeus	Crimson Rose
<i>Papilio demoleus</i> Linnaeus	Lime Butterfly
<i>Papilio polytes polytes</i> Linnaeus	Common Mormon
<i>Papilio polytes stichius</i> Hubner	Common Mormon
ii. Heterocera (Moths)	Subfamily
<i>Entomogramma tortum</i> Guen.	Noctuidae
<i>Polytela gloriosae</i> Fab.	Noctuidae
<i>Spodoptera litura</i> (Fab.)	Noctuidae
<i>Spodoptera mauritia</i> Boisd.	Noctuidae
<i>Euproctis scintillans</i> Wlk.	Lymantridae
<i>Heracula discivitta</i> Moore	Lymantridae
<i>Himala argentea</i> Wlk.	Lymantridae
<i>Eupterote mollifera</i> Wlk.	Eupterotidae
<i>Eupterote undata</i> Blanch.	Eupterotidae
<i>Hypsa alciphron</i> Cram.	Arctiidae
<i>Deopia pulchella</i> Linn.	Arctiidae
<i>Pericallia ricini</i> Fab.	Arctiidae
<i>Pericallia</i> sp.	Geometridae
<i>Macaria fasciata</i> Fab.	Geometridae
<i>Acherontia lachesis</i> Fab.	Sphingidae
<i>Acherontia styx</i> Westw.	Sphingidae
<i>Marumba dyras dyras</i> Wlk.	Sphingidae
<i>Protoparce convolvuli</i> Linn.	Sphingidae
<i>Actias selene</i> Hiibn.	Saturniidae
<i>Antheraea paphia</i> Linn.	Saturniidae
<i>Syntomoides microchilus</i> Hamp.	Syntomidae
<i>Syntomoides imaon</i> Cram.	Syntomidae



Annexure VIII.9

List of aquatic / semi aquatic macrophytes found along the borders of the Reservoir, River, Tanks and ponds around the study area.

Latin name	Family	Status
<i>Alternanthera philoxeroides</i>	Solanaceae	Predominant occasionally
<i>Aponogeton natans</i>	Aponogetonaceae	Common
<i>Azolla pinnata</i>	Azollaceae	Scattered and common
<i>Brachiaria mutica</i>	Poaceae	Sporadic
<i>Carex cruciata</i>	Cyperaceae	Occasional
<i>Centella asiatica</i>	Apiaceae	In localized patches
<i>Chrysopogon aciculatus</i>	Poaceae	Occasional
<i>Colocassia esculenta</i>	Araceae	Occasional
<i>Cynodon dactylon</i>	Poaceae	Extensive and widespread
<i>Cyperus arenarius</i>	Cyperaceae	Locally abundant
<i>Cyperus exaltatus</i>	Cyperaceae	Locally abundant
<i>Echinochloa colona</i>	Poaceae	Occasional
<i>Echinochloa stagnina</i>	Poaceae	Occasional
<i>Eichhornia crassipes</i>	Pontederiaceae	Extensive and widespread
<i>Hydrilla verticillata</i>	Hydrocharitaceae	Prevalent
<i>Ipomoea aquatica</i>	Convolvulaceae	Extensive and widespread
<i>Ludwigia perennis</i>	Onagraceae	Occasional
<i>Marsilia quadrifoliata</i>	Marsiliaceae	Very common Pteridophyte
<i>Nelumbo nucifera</i>	Nelumbiaceae	Very common
<i>Nymphaea nauchali</i>	Nymphaeaceae	Widely scattered
<i>Nymphaea stellata</i>	Nymphaeaceae	Widely scattered
<i>Nymphoides hydrophylla</i>	Nymphaeaceae	Scattered
<i>Nymphoides indica</i>	Nymphaeaceae	Scattered
<i>Ottelia alismoides</i>	Hydrocharitaceae	Widely scattered
<i>Oxalis corniculata</i>	Oxalidaceae	Occasional
<i>Paspalidium geminatum</i>	Poaceae	Common
<i>Phragmites karka</i>	Cyperaceae	Dominant along boundaries
<i>Pistia stratioides</i>	Araceae	Widespread
<i>Salvinia cucullata</i>	Salviniaceae	Common
<i>Typha angustata</i>	Typhaceae	Extensive and widespread
<i>Vallisneria spiralis</i>	Hydrocharitaceae	Widespread



Annexure VIII.10

List of algal species found in the Singur reservoir, Manjira River, in paddy fields, wells and other water bodies of the around the Reservoir.

Names of Algae	Division
<i>Chlamydomonas sp.</i>	Chlorophyta or green algae
<i>Chlorella vulgaris</i>	Chlorophyta or green algae
<i>Chlorella pyrenoidosa</i>	Chlorophyta or green algae
<i>Chlorococcus sp.</i>	Chlorophyta or green algae
<i>Gonium pectorale</i>	Chlorophyta or green algae
<i>Pandorina sp.</i>	Chlorophyta or green algae
<i>Pandorina morum</i>	Chlorophyta or green algae
<i>Eudorina elegans</i>	Chlorophyta or green algae
<i>Volvox sp.</i>	Chlorophyta or green algae
<i>Hydrodictyon sp.</i>	Chlorophyta or green algae
<i>Pediastrum duplex</i>	Chlorophyta or green algae
<i>Pediastrum boryanum</i>	Chlorophyta or green algae
<i>Tetraspora sp.</i>	Chlorophyta or green algae
<i>Synedra acus</i>	Chlorophyta or green algae
<i>Scenedesmus acuminatus</i>	Chlorophyta or green algae
<i>Scenedesmus dimorpha</i>	Chlorophyta or green algae
<i>Scenedesmus obliques</i>	Chlorophyta or green algae
<i>Scenedesmus quadricauda</i>	Chlorophyta or green algae
<i>Spirogyra sp.</i>	Chlorophyta or green algae
<i>Ulothrix sp.</i>	Chlorophyta or green algae
<i>Oedogonium sp.</i>	Chlorophyta or green algae
<i>Cladophora sp.</i>	Chlorophyta or green algae
<i>Chaetophora sp.</i>	Chlorophyta or green algae
<i>Chara zeylanica</i>	Charophyta (Stone wort)
<i>Euglena proxima</i>	Euglenophyceae
<i>Euglena intermedia</i>	Euglenophyceae
<i>Euglena pisciformis</i>	Euglenophyceae
<i>Euglena polymorpha</i>	Euglenophyceae
<i>Euglena oxyuris</i>	Euglenophyceae
<i>Euglena viridis</i>	Euglenophyceae
<i>Vaucheria sp.</i>	Bacillariophyceae
<i>Ankistrodesmus falcatus</i>	Bacillariophyceae
<i>Asterionella sp.</i>	Bacillariophyceae
<i>Navicula cuspidata</i>	Bacillariophyceae
<i>Navicula viridis</i>	Bacillariophyceae
<i>Navicula cryptocephala</i>	Bacillariophyceae
<i>Nitella sp.</i>	Characeae (Stone wort)
<i>Melosira granulata</i>	Bacillariophyceae
<i>Melosira various</i>	Bacillariophyceae
<i>Diatoma vulgare</i>	Bacillariophyceae



Annexure VIII.10

List of algal species found in the Singur reservoir, Manjira River, in paddy fields, wells and other water bodies of the around the Reservoir.

Names of Algae	Division
<i>Pinnularia sp</i>	Bacillariophyceae
<i>Cyclotella sp.</i>	Bacillariophyceae
<i>Triceratium sp</i>	Bacillariophyceae
<i>Chroococcus sp.</i>	Cyanophyceae
<i>Microcystis aeruginosa</i>	Cyanophyceae
<i>Gleocapsa sp.</i>	Cyanophyceae
<i>Gleotrichia sp.</i>	Cyanophyceae
<i>Anabaena constricta</i>	Cyanophyceae
<i>Rivularia sp.</i>	Cyanophyceae
<i>Lingbya sp.</i>	Cyanophyceae
<i>Oscillatoria limosa</i>	Cyanophyceae
<i>Oscillatoria tenuis</i>	Cyanophyceae
<i>Oscillatoria chlorina</i>	Cyanophyceae
<i>Oscillatoria princeps</i>	Cyanophyceae
<i>Oscillatoria chlorina</i>	Cyanophyceae
<i>Oscillatoria putrida</i>	Cyanophyceae
<i>Oscillatoria splendida</i>	Cyanophyceae
<i>Nostoc sp.</i>	Cyanophyceae



Annexure VIII.11

List of fishes either caught by the fisherman or reported from the Singur reservoir and Manjira River and its environs.

S.No.	Common name	Latin name
1	Catla	<i>Catla catla</i>
2	Rohu	<i>Labeo rohita</i>
3	Murrel	<i>Channa striatus</i>
4	Murrel	<i>Channa punctatus</i>
5	Wallago	<i>Wallago attu</i>
6	Cat fish	<i>Mystus vittatus</i>
7	Cat fish	<i>Heteropneustes fossilis</i>
8	Spiny eel	<i>Mastecembalus armatus</i>
9	Prawn	<i>Macrobrachium rosenberghii</i>
10	Prawn	<i>Macrobrachium malcolmsonii</i>
11	Giant prech	<i>Lates calcarifer</i>
12	Silonia	<i>Silonia silonia</i>
13	Pearl spot	<i>Etroplus suratensis</i>
14	Indian Mottled Eel	<i>Anguilla bengalensis</i>
15	Gobids	<i>Glossogobius giuris</i>
16	Gobids	<i>Platycephalus sp.</i>
17	Mrigal	<i>Cirrhinus mrigala</i>
18	Tilapia	<i>Oreochromis aureus</i>
19	Tilapia	<i>Oreochromis mossambicus</i>
20	Tilapia	<i>Oreochromis niloticus</i>
21	Tilapia	<i>Tilapia rendalli</i>
Benthic fish found / caught		
	Murrel	<i>Channa striatus</i>
	Murrel	<i>Channa punctatus</i>
	Spiny eel	<i>Mastecembalus armatus</i>
	Indian Mottled Eel	<i>Anguilla bengalensis</i>
	Cat fish	<i>Mystus vittatus</i>
	Cat fish	<i>Heteropneustes fossilis</i>



Annexure VIII.12

List of aquatic insects found in and around the upstream and downstream of the Singur Reservoir.

Order	Family	Latin name
Coleoptera	Dytiscidae	<i>Cybister confusus</i>
Coleoptera	Dytiscidae	<i>Cybister tripunctatus</i>
Coleoptera	Dytiscidae	<i>Eretes strictus</i>
Coleoptera	Dytiscidae	<i>Hydaticus vittatus</i>
Coleoptera	Dytiscidae	<i>Santrascottus dejeani</i>
Coleoptera	Dytiscidae	<i>Canhydrus laetabilis</i>
Coleoptera	Dytiscidae	<i>Laccophilus pravulus</i>
Coleoptera	Dytiscidae	<i>Agathus sp.</i>
Coleoptera	Dytiscidae	<i>Neopasternus sp.</i>
Coleoptera	Gyrinidae	<i>Dineulus indicus</i>
Coleoptera	Gyrinidae	<i>Gyrinus sp.</i>
Coleoptera	Hydroplidae	<i>Hydrous indicus</i>
Coleoptera	Hydroplidae	<i>Hydrous sp.</i>
Coleoptera	Hydroplidae	<i>Sternolophus rufipes</i>
Coleoptera	Hydroplidae	<i>Berosus sp.</i>
Coleoptera	Hydroplidae	<i>Enochorus sp.</i>
Coleoptera	Hydroplidae	<i>Laccobius sp.</i>
Hemiptera	Notonectidae	<i>Anisops bouvieri</i>
Hemiptera	Notonectidae	<i>Anisops breddini</i>
Hemiptera	Notonectidae	<i>Anisops walterensis</i>
Hemiptera	Notonectidae	<i>Anisops barbata</i>
Hemiptera	Notonectidae	<i>Anisops sardea</i>
Hemiptera	Notonectidae	<i>Nychia marshalli</i>
Hemiptera	Pleidae	<i>Plea frontalis</i>
Hemiptera	Nepidae	<i>Ranatra filiformis</i>
Hemiptera	Nepidae	<i>Ranatra elongate</i>
Hemiptera	Nepidae	<i>Ranatra digitata</i>
Hemiptera	Nepidae	<i>Ranatra varipes</i>
Hemiptera	Nepidae	<i>Laccotrephes griseus</i>
Hemiptera	Belostomatidae	<i>Diplonychus rusticum</i>
Hemiptera	Belostomatidae	<i>Spaerodema annulatum</i>
Hemiptera	Belostomatidae	<i>Belostoma indicum</i>
Hemiptera	Corixidae	<i>Micronecta scutellaris</i>
Hemiptera	Corixidae	<i>Micronecta quadristrigata</i>
Hemiptera	Corixidae	<i>Micronecta thyesta</i>
Hemiptera	Corixidae	<i>Micronecta albifoons</i>
Hemiptera	Corixidae	<i>Micronecta helioplides</i>
Hemiptera	Corixidae	<i>Corixa distorta</i>
Hemiptera	Corixidae	<i>Agraptocorixa sp.</i>
Odonata	Gomphidae	<i>Anax sp.</i>
Odonata	Libellulidae	<i>Macromia sp.</i>
Odonata	Libellulidae	<i>Libellula sp.</i>
Odonata	Libellulidae	<i>Bradinopygia geminata</i>



Annexure VIII.13

List of Annelids collected from the project area.

<i>Megascolex mauritii</i>	In damp loose soils with rich organic matter	Common in India
<i>Drawida sp</i>	In damp loose soils with rich organic matter	Common in India
<i>Branchiodrilus semperi</i>	Aquatic benthic form	Rare
<i>Myzostoma sp.</i>	Damp soils	Common
<i>Stelechopus sp.</i>	Damp soils	Common
<i>Hirudinaria granulosa</i>	Aquatic, cattle leech	Very Common and wide
<i>Hirudinaria viridis</i>	Aquatic, cattle leech	Very Common and wide
<i>Hirudinaria javanica</i>	Aquatic, cattle leech	Very Common and wide
<i>Hirudinaria manillensis</i>	Aquatic, cattle leech	Very Common and wide
<i>Pheretima posthuma</i>	Common earthworm	Common in India
<i>Pheretima heterochaeta</i>	Common earthworm	Common in India
<i>Pheretima rubusta</i>	Common earthworm	Common in India
<i>Pheretima elongata</i>	Common earthworm	Common in India
<i>Pheretima compalata</i>	Common earthworm	Common in India
<i>Pheretima planata</i>	Common earthworm	Common in India
<i>Pheretima marrisi</i>	Common earthworm	Common in India



Annexure VIII.14

List of Mollusks (Snails) collected from the Singur reservoir and its surroundings.

<i>Pila virens</i>
<i>Bellamya dissimilis</i>
<i>Bellamya bengalensis</i>
<i>Indoplanorbis exustus</i>
<i>Melano striatella</i>
<i>Thiara lineatus</i>
<i>Thiara scabra</i>
<i>Lymnaea luteola</i>
<i>Lymnaea acuminata</i>
<i>Corbicula striatella</i>
<i>Lamillidens marginalis</i>
<i>Parreysia corrugata</i>



Annexure VIII.15

List of Zooplankton collected from the reservoir and its surroundings.

Copepoda	CLADOCERANS
<i>Heliodiaptomus virduus</i>	<i>Diaphnosoma excisum</i>
<i>Heliodiaptomus contortus</i>	<i>Diaphnosoma sarsi</i>
<i>Heliodiaptomus kolleruensis</i>	<i>Pseudosida szalay</i>
<i>Heliodiaptomus cinctus</i>	<i>Latonopsis australis</i>
<i>Neodiaptomus lindenbergi</i>	<i>Scapholeberis kingi</i>
<i>Troponodiaptomus informis</i>	<i>Simocephalus vetulus</i>
<i>Phyllodiaptomus blanci</i>	<i>Ceriodaphnia cornuta</i>
<i>Pseudodiaptomus benghami</i>	<i>Ceriodaphnia quadrangula</i>
<i>Pseudodiaptomus annadalei</i>	<i>Ceriodaphnia laticaudata</i>
<i>Acartia plumose</i>	<i>Moinodaphnia macleayi</i>
<i>Acartia major</i>	<i>Moina micrura</i>
<i>Acartia minor</i>	<i>Macrothrix spinosa</i>
Rotifera	<i>Illyocriptus spinifer</i>
<i>Brachionus quadridentata</i>	<i>Pleuroxus aduncus</i>
<i>Brachionus calcyflorus</i>	<i>Pleuroxus trigonellatus</i>
<i>Brachionus rubens</i>	<i>Chydorus ventricosus</i>
<i>Brachionus angularis</i>	<i>Chydorus borroisi</i>
<i>Brachionus diversicornis</i>	<i>Chydorus parvus</i>
<i>Brachionus falcatus</i>	<i>Dunhevedia crassa</i>
<i>Filinia longiseta</i>	<i>Dadaya macrops</i>
<i>Rotaria neptunia</i>	<i>Pseudochydorus globosus</i>
<i>Monostyla sp.</i>	<i>Alona davidi</i>
<i>Keratella tropica</i>	<i>Alona pulchella</i>
	<i>Kurzia longirostris</i>
	<i>Campotcerus rectirostris</i>
	<i>Graptoleberis testudinaria</i>
	<i>Leydigia australis</i>
	<i>Biapertura karua</i>
	<i>Euryalona orientalis</i>



Annexure VIII.16

Suggested list of trees and shrubs for avenue, canal bank plantations and afforestation of the deforested catchment areas.

Botanical name	Local name	Importance
<i>Acacia auriculiformis</i>	Australian thumma	Avenue tree
<i>Ailanthus excelsa</i>	Pedda maanu	Tree borne oil
<i>Albizia lebbek</i>	Dirisana	Shade, timber and scented flowers
<i>Azadirachta indica</i>	Vepa or Neem	Neem oil & neem products
<i>Bixa orellana</i>	Jabaru kaya	Grown for food colouring dye.
<i>Cassia fistula</i>	Rela	Ornamental and bark is a source of tannin
<i>Dendrocalamus strictus</i>	Bamboo	Bamboo products
<i>Casuarina equisetifolia</i>	Sarvi	Pulp and construction material
<i>Delonix regia</i>	Chitikesara	Ornamental avenue tree
<i>Eucalyptus spp.</i>	Eucalyptus	Pulp and construction material
<i>Ficus benghalensis</i>	Marri	Shade and a source of food for birds
<i>Ficus racemosa</i>	Medi	Edible fruits
<i>Ficus religiosa</i>	Raavi	Shade and a source of food for birds
<i>Gmelina arborea</i>	Gummadi tekku	Timber
<i>Grewia robusta</i>	Silver oak	Avenue tree
<i>Hardwickia binata</i>	Yepi	Fodder, fibre and timber
<i>Holoptelia integrifolia</i>	Nemali naara	Fibre and timber
<i>Leucaena leucocephala</i>	Subabul	Fodder and pulp wood
<i>Mangifera indica</i>	Mango	Edible fruit
<i>Mimosops elengi</i>	Pogada	Shade and edible fruit
<i>Muntingia calabura</i>	Singapore cherry	Umbrella shaped small tree
<i>Pongamia pinnata</i>	Gaanuga	Source of biodiesel
<i>Polyalthia pendula</i>	Ashoka	Majestic tree with drooping branches
<i>Polyalthia longifolia</i>	Ashoka	Avenue tree
<i>Samanea saman</i>	Nidrabhangi	Shade, timber and fruits are a good live stock feed.
<i>Sapindus emarginatus</i>	Kunkudu	Soap nut tree
<i>Spathodea companionulata</i>	Flame of the forest	Ornamental avenue tree
<i>Syzygium cumini</i>	Neredu	Edible fruits
<i>Tamarindus indica</i>	Chinta	Tamarind fruit and leaf
<i>Tectona grandis</i>	Teak	Timber
<i>Terminalia arjuna</i>	Nallamaddi	Timber and shade tree
<i>Terminalia catappa</i>	Baadam	Edible nuts



Annexure IX.1

Percentage increase in Health Care Facilities from Pre-project to Post-project situation

Sl. No	District / Mandal	% Increase in Institutions				
		Allopathic		Homeopathy	Ayurvedic	Unani
		Govt. Hospital	PHC			
1	Medak District	-9%	35	Nil	100% (25)	100% (9)
2	Pulkal Mandal	Nil	Nil	Nil	100 (One Institute)	Nil
3	Munipalli Mandal	Nil	Nil	Nil	Nil	Nil
4	Regode Mandal	Nil	Nil	Nil	Nil	Nil
5	Raikode Mandal	Nil	Nil	Nil	Nil	Nil
6	Nyalkal Mandal	Nil	Nil	Nil	Nil	Nil
7	Manoor Mandal	Nil	Nil	Nil	Nil	Nil
<i>Source: Compiled on the basis of information available in the District Statistical Hand Books for the year 1985-86 and 2008-08</i>						



Annexure IX.2

Health Status in the Rehabilitated Area

Sl No	District	Mandal	Village	Incidence of Malaria		Incidence of Filaria		Incidence of Gastroenteritis		Incidence of Typhoid		Incidence of Cholera		Incidence of Jaundice		Incidence of TB		Incidence of Florosis	
				Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Medak	Manoor	New Bellapur	13	14	2	2	4	5	10	13	10	4	4	13	4	5		
2	Medak	Manoor	Pulukurthy	15	9	2	1		1	7	3	5	4	6	5				
3	Medak	Munipalli	Beluru	18	21	7	7	5	6	19	11	13	8	16	9	2	1	2	9
4	Medak	Munipalli	Marthakeswaram	5	24		5	1		17	20	8	9	2	8		1		
5	Medak	Pulkal	Koduru	19	15	16	12	1		19	10	13	4	12	15			3	
6	Medak	Pulkal	Singur	11	20	6	7	3	5	8	12	6	7	8	13	5	3	5	4
7	Medak	Raikode	Doulthabad	12	8	4		1		9	5	3	8	5	9				
8	Medak	Raikode	Sirur	19	11	12	4	4	6	9	13	6	7	7	10	4	1		1
9	Medak	Regod	Nirjapla	2	15			2		10	15	8	6		6				1
10	Medak	Regod	Usirkapally	3	20		1	7	2	12	12	2	1	2	5				
Sub Total				117	157	49	39	28	25	120	114	74	58	62	93	15	11	10	15
% of HH				46.8	62.8	19.6	15.6	11.2	10.0	48.0	45.6	29.6	23.2	24.8	37.2	6.0	4.4	4.0	6.0

Note :Sample 250 HH



Annexure IX.3

Immunisation Status in the Rehabilitated Area

Sl No	District	Mandal	Village	Polio		DPT		BCG		Measels	
				Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Medak	Manoor	New Bellapur	10	23	9	24	9	24	11	23
2	Medak	Manoor	Pulukurthy	12	24	1	10	1	10		2
3	Medak	Munipalli	Beluru	22	24	6	9	6	9	7	9
4	Medak	Munipalli	Marthakeswaram	4	24	2	25	2	25	6	25
5	Medak	Pulkal	Koduru	18	25	2	6	2	6	2	7
6	Medak	Pulkal	Singur	5	25	5	25	5	25	5	25
7	Medak	Raikode	Doulthabad	6	25		18		18		11
8	Medak	Raikode	Sirur	7	23	3	19	3	19	4	15
9	Medak	Regod	Nirjapla	1	24	1	24	1	24	1	23
10	Medak	Regod	Usirkapally		25		25		25		25
Sub Total				85	242	29	185	29	185	36	165
% of HH				34.0	96.8	11.6	74.0	11.6	74.0	14.4	66.0

Note :Sample 250 HH



Annexure IX.4

Family Welfare Programme in Rehabilitated Centres

Sl No	District	Mandal	Village	Family Welfare		Vesectomy		Tubectomy		Use of Condoms	
				Pre	Post	Pre	Post	Pre	Post	Pre	Post
1	Medak	Manoor	New Bellapur	7	15	1	3	6	20		6
2	Medak	Manoor	Pulukurthy	2	2	4	5	8	15		14
3	Medak	Munipalli	Beluru	7	7	7	6	10	17		14
4	Medak	Munipalli	Marthakeswaram				2	2	18		1
5	Medak	Pulkal	Koduru	3	4	7	11	8	13		16
6	Medak	Pulkal	Singur	9	23	5	6	5	17	3	3
7	Medak	Raikode	Doulthabad		7	1	5	3	16		5
8	Medak	Raikode	Sirur	4	12	2	5	2	12		5
9	Medak	Regod	Nirjapla				1	1	9		2
10	Medak	Regod	Usirkapally		1		1	1	17		1
Sub Total				32	71	27	45	46	154	3	67
% of HH				12.8	28.4	10.8	18.0	18.4	61.6	1.2	26.8

Note :Sample 250 HH



Annexure XI.1

List of Village in Command Area of Singur Project

Sl. No	Villages	Sl. No	Villages
1	Korampalle	28	Bommareddigudem
2	Palvancha	29	Sarafpalle
3	Dhannaram	30	Upparaguda
4	Untaipalle	31	Seri Ramireddiguda
5	Dadaipalli	32	Sultanpur
6	Manasapalle	33	Korpole
7	Kusangi	34	Lingampalle
8	Rollapahad	35	Venkatakistapur
9	Ramsanpalle	36	Sivampet
10	Chintakunta	37	Chakriyal
11	Danampalle	38	Vendikole
12	Yarraram	39	Gangojipet
13	Neerdigunta	40	Gonglur
14	Rosanipet	41	Esojipet
15	Jogipet	42	Kodur
16	Dakoor	43	Minpur
17	Nadlapur	44	Pulkal
18	Mansanpalle	45	Muddaipet
19	Andol	46	Singur
20	Potgalsamal	47	Malaphad
21	Sandampet	48	Pocharam
22	Sangupe	49	Eettigadda Sangam
23	Pothreddipalle	50	Pottipalle
24	Almaipet	51	Kotaputipalli
25	Kondareddipalle	52	Kolkur
26	Posanipalle	53	Atmakur
27	Chotkur	54	Yellaram



COMMAND AREA
Demographic Particulars: District and Mandal-wise (2007-08)

Sl. No	Particulars	Units	Pulkal	Munepalle	Andol	Tekmal	Alladurg	Sadasivpet	Sangareddy	Total Population of Mandals
1	Total Population	In thousand	48.55	36.58	59.32	34.52	42.86	85	128.92	435.75
	i) Male	In thousand	24.75	18.76	29.86	17.21	21.67	43.21	65.86	221.32
	ii) Female	In thousand	23.81	17.82	29.46	17.31	21.19	41.79	63.06	214.44
2	Sex Ratio	Female to Male per Thousand	961	949	986	1000.5	969	966	957	967
3	SC population	In thousand	11.06	8.42	12.75	6.99	9.72	14.08	20.02	83.04
	% SC population to total rural population	Percentage	22.80%	23.00%	21.50%	21.70%	22.70%	28.90%	34.40%	25.26%
	i) Male	In thousand	5.68	4.37	6.4	3.49	4.96	7.09	10.13	45.77
	ii) Female	In thousand	5.38	4.05	6.35	3.55	4.54	6.99	9.89	40.75
4	ST population	In thousand	3.5	0.149	0.429	4.82	1.94	0.93	5.26	17.03
	% ST population to total rural population	Percentage	7.20%	0.40%	0.70%	14.00%	4.50%	1.90%	9.00%	5.20%
	i) Male	In thousand	1.85	0.081	0.224	2.39	1.03	0.47	2.71	8.76
	ii) Female	In thousand	1.65	0.068	0.205	2.43	0.91	0.46	2.55	8.27
5	Rural Population	In thousand	48.55	36.58	59.32	34.52	42.85	48.67	58.21	328.7
6	Density of Population	Per Sq Km	198	181	324	220	317	348	581	2169

Source: Compiled from Handbook of Statistics, Medak Dist



Annexure XI.3

COMMAND AREA

Status of Educational Institutions (Govt and Local Bodies) : District and Mandal Wise (2006 - 07)

Sl.no	Particulars	Units	Medak Dist	Pulkal	Munepalle	Andol	Tekmal	Alladurg	Sadasivpet	Sangareddy
Primary schools										
1	No of Schools	No's	1887	33	30	26	42	32	41	60
2	No of Teachers	No's	5501	107	101	126	70	82	219	268
3	Average No of Teachers / Schools	No's	3	3	3	5	2	3	5	5
Upper Primary School										
1	No of Schools	No's	566	11	10	10	8	10	15	13
2	No of Teachers	No's	4357	84	37	98	38	58	182	124
3	Average No of Teachers / Schools	No's	8	8	4	10	5	6	12	10
High School										
1	No of Schools	No's	451	8	9	7	6	8	12	16
2	No of Teachers	No's	4896	75	77	112	30	58	203	330
3	Average No of Teachers / Schools	No's	11	9	9	16	5	7	17	21

Source: Compiled from Handbook of Statistics, Medak Dist



COMMAND AREA
Literacy Rate : District and Mandal Wise (2007 - 08)

Sl. no	Particulars	Units	Pulkal	Munepalle	Andol	Tekmal	Alladurg	Sadasivpet	Sangareddy	Total of all mandals	Average of total mandals
1	Total Literates	In Thousands	18.55	14.87	25.06	10.07	14.83	43.14	77.36	203.88	29.12
	a. Male	In Thousands	12.38	9.78	15.91	6.86	9.97	26.37	45.39	126.66	18.09
	a.1 Percentage of total literates	Percentage	66.70%	65.80%	63.40%	68.10%	67.20%	61.10%	58.70%	62.10%	
	b. Female	In Thousands	6.17	5.10	9.15	3.21	4.86	16.77	31.97	77.22	11.03
	b.1 Percentage of total literates	Percentage	33.3%	34.2%	36.5%	31.9%	32.8%	38.9%	41.3%	37.9%	
2	Total Literates rate	% to Total Population	44.42%	47.98%	49.12%	34.68%	40.63%	59.87%	69.71%		49.50%
	a. Male	% to Total Population	58.10%	61.53%	61.86%	47.42%	53.96%	71.83%	80.12%		62.11%
	b. Female	% to Total Population	30.17%	33.73%	36.16%	22.03%	26.95%	44.45%	58.86%		36.05%

District figures are in lakh

Source: Compiled from Handbook of Statistics Medak Dist



COMMAND AREA
Occupational Details : District and Mandal Wise (2007 - 08)

Sl. no	Particulars	Units	Medak Dist	Pulkal	Munepalle	Andol	Tekmal	Alladurg	Sadasiv pet	Sanga reddy	Total of Command area Mandals	% to Total
1	Total Population	No's	2670097	48552	36587	59325	34523	42856	85004	128917	435764	16.3% To the total Dist Population
2	Total Workers	No's	1292437	25037	17450	29637	19215	21185	35319	46668	194511	44.6% to the Command area population
2.1	Male workers	No's	748598	14099	10393	16949	10116	11868	23199	32846		
2.2	Female workers	No's	543839	10938	7057	12688	9099	9317	12120	13822		
3	Cultivators	No's	394247	8302	5895	6883	6730	6635	6971	7075	48491	24.9% to the total workers
3.1	Male	No's	254628	5732	4083	4744	4212	4618	5129	4854		
3.2	Female	No's	139619	2570	1812	2089	258	2017	1842	2221		
4	Agricultural labours	No's	480133	12951	8340	14614	10467	10869	14563	13877	85681	44.0% to to total workers
4.1	Male	No's	204996	5383	3725	6111	4394	4452	6330	5985		
4.2	Female	No's	275137	7568	4615	8503	6073	6417	8233	7892		
5	Workers in Household Industry	No's	53549	361	396	885	190	726	811	1248	4617	2.4% to the total workers
5.1	Male	No's	19227	244	169	473	107	419	502	604		
5.2	Female	No's	34322	117	227	412	83	307	309	644		
6	Other Workers	No's	364518	3423	2819	7305	1828	2955	12974	24468	55772	28.7% to the total workers
6.1	Male	No's	269757	2740	2419	5621	1403	2379	11238	21403		
6.2	Female	No's	94761	683	403	1684	425	576	1736	3065		

Source: Compiled from Handbook of Statistics Medak Dist



Annexure XI.6

COMMAND AREA

Area Irrigated : District and Mandal Wise (2007 - 08)

Sl.no	Particulars	Area in ha		Area in ha		Area in ha		Area in ha		Area in ha		Area in ha		Area in ha		Area in ha		Total of All Mandals Kharif	Total of All mandals Rabi	Total of All Mandals Kharif and Rabi
		Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi			
1	Tanks	1825	1103	28	0	0	0	147	0	587	4	170	0	0	0	0	0	932	4	936
2	Canals	1857	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Lift	1094	364	260	176	0	0	49	62	79	0	0	0	0	0	0	0	388	238	626
4	Tube Wells	90483	87728	3394	3147	750	269	2613	4443	1682	1239	1892	2068	2209	928	2710	1609	15250	13703	28953
5	Dug Wells	6898	10441	0	0	158	127	0	0	0	0	0	0	0	0	0	0	158	127	285
Total		102157	99636	3682	3323	908	396	2809	4505	2348	1243	2062	2068	2209	928	2710	1609	16728	14072	30800
Source: Compiled from Handbook of Statistics Medak Dist																				



COMMAND AREA

Table 16 : Cropping Pattern : District and Mandal Wise 2007 - 08 (Figure in Parenthesis () Indicates Position)

Sl. no	Crops Season	Total Command Area (A 117 Mandals)		Pulkal		Munepalle		Andol		Tekmal		Alladurg		Sadasivpet		Sangareddy	
		Area in ha		Area in ha		Area in ha		Area in ha		Area in ha		Area in ha		Area in ha		Area in ha	
		Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi
	NET Crop area Sown			6588	2590	7910	2990	6879	1303	5826	976	8492	2365	8820	3634	5847	974
1	Paddy	6988 (4)	1490 (4)	824 (3)	162 (4)	188 (7)	19 (4)	1115 (3)	439 (4)	1768 (1)	271 (4)	1125 (3)	210 (4)	819 (4)	112 (4)	1149 (1)	277 (4)
2	Jower	3346 (7)	8866 (2)	138 (7)	1447 (2)	606 (5)	756 (2)	451 (6)	2867 (1)	933 (3)	703 (1)	203 (7)	1667 (2)	312 (7)	904 (2)	703 (4)	519 (2)
3	Maize	2152 (8)	73 (5)	93 (8)	0	43 (8)	0	165 (8)	0	507 (7)	62 (5)	76 (8)	0	350 (6)	0	918 (3)	11 (5)
4	Green gram	10196 (1)	0	920 (2)	0	2805 (1)	0	1288 (2)	0	1472 (2)	0	2494 (1)	0	934 (3)	0	283 (6)	0
5	Bengal gram	-	11979 (1)	0	1359 (3)	0	3187 (1)	0	2126 (3)	0	425 (3)	0	1764 (1)	0	2021 (1)	0	297 (3)
6	Black gram	3926 (6)	-	432 (4)	0	745 (3)	0	667 (4)	0	511 (6)	0	1051 (4)	0	306 (8)	0	214 (7)	0
7	Red gram	4272 (5)	-	427 (5)	0	607 (4)	0	645 (5)	0	568 (5)	0	948 (5)	0	448 (5)	0	629 (5)	0
8	Sugar cane	8605 (2)	8282 (3)	2792 (1)	2525 (1)	573 (6)	272 (3)	1656 (1)	2627 (2)	580 (4)	580 (4)	824 (6)	979 (3)	1136 (2)	680 (3)	1044 (2)	664 (1)
9	Cotton	7177 (3)	-	213(6)	0	1630 (2)	0	242 (7)	0	21 (8)	0	1141 (2)	0	3726 (1)	0	204 (8)	0

Source: Compiled from Handbook of Statistics Medak Dist



Cropping Pattern Mandal-wise (2007-08)

Sl. No as per order of priority	Pulkal		Munepalle		Andol		Tekmal		Alladurg		Sadasivapet		Sangareddy	
	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi
1	Sugar cane	Sugar cane	Green gram	Bengal gram	Sugar cane	Jowar	Paddy	Jowar	Green gram	Bengal gram	Cotton	Bengal gram	Paddy	Sugar cane
2	Green gram	Jowar	Cotton	Jowar	Green gram	Sugar cane	Green gram	Sugar cane	Cotton	Jowar	Sugar cane	Jowar	Sugar cane	Jowar
3	Paddy	Bengal gram	Black gram	Sugar cane	Paddy	Bengal gram	Jowar	Bengal gram	Paddy	Sugar cane	Green gram	Sugar cane	Maize	Bengal gram
4	Black gram	Paddy	Red gram	Paddy	Black gram	Paddy	Sugar cane	Paddy	Black gram	Paddy	Paddy	Paddy	Jowar	Paddy
5	Red gram		Jowar		Red gram		Red gram	Maize	Red gram		Red gram		Red gram	Maize
6	Cotton		Sugar cane		Jowar		Black gram		Sugar cane		Maize		Green gram	
7	Jowar		Paddy		Cotton		Maize		Jowar		Jowar		Black gram	
8	Maize		Maize		Maize		Cotton		Maize		Black gram		cotton	



Demographic Profile of Sample Households

Sl. No	District	Mandal	Village	Sample Size (HH)	Family Members				Total Family members		Total members	Female / 1000 male (Sex Ratio)	Average Family Size	Caste				Educational Status			
					Adults		Children (Below 5yrs)														
					Male	Female	Male	Female	Male	Female				SC	ST	BC	OC	Total	Illiterates	Literates	Literacy %
1	Medak	Alladurg	Neeredigutna	20	53	50	8	5	61	55	116	902	5.8			20		103	62	41	39.8
2	Medak	Alladurg	Yarram	20	39	39	6	3	45	42	87	933	4.35			20		81	50	31	38.2
3	Medak	Andol	Almaipeta	20	55	51	5	4	60	55	115	916	5.75	5		15		106	57	49	46.2
4	Medak	Andol	Dakoor	20	55	52	6	4	61	56	117	918	5.85	4		12	4	107	59	48	44.8
5	Medak	Munepalle	Mansapalli	20	53	48	5	3	58	51	109	879	5.45	1		13	6	101	54	47	46.5
6	Medak	Pulkal	Eskogipet	20	32	30	3	2	35	32	67	914	3.35			12	8	62	33	29	46.7
7	Medak	Pulkal	Gangluru	20	37	35	4	1	41	36	77	878	3.85	4	3	12	1	72	45	27	37.5
8	Medak	Pulkal	Gangojipet	20	61	60	7	4	68	64	132	941	6.6			16	4	121	80	41	33.9
9	Medak	Pulkal	Pulkal	20	64	58	6	3	70	61	131	871	6.55	6		12	2	122	68	54	44.2
10	Medak	Tekmal	Dhannaram	20	49	47	4	3	53	50	103	943	5.15	7	4	8	1	96	62	34	35.4
11	Medak	Tekmal	Palvancha	20	64	60	6	4	70	64	134	914	6.7			17	3	124	84	40	32.2
Overall / Sub-Total				220	562	530	60	36	622	566	1188	910	5.4	27	7	157	29	1095	654	441	40.27



Annexure XI.10

No. of Household possessing Household Assets by the Command Area Sample Households

Sl No	District	Mandal	Village	Pucca House	Semi Pucca House	Katcha House	Bicycle	Two Wheeler	Four Wheeler	Television	Radio	Refrigerator	Telephone	Mobile
1	Medak	Alladurgu	Neeradigunta		19	1	15			18				18
2	Medak	Alladurgu	Yarraram	1	19		13	1		9	5			15
3	Medak	Andol	Almaipeta	1	19		16			20				19
4	Medak	Andol	Dakoor	4	16		13	1		19				19
5	Medak	Munipalli	Mansapalli	1	19		16	3		17				14
6	Medak	Pulkal	Eskojipet	1	16	3	8			14	3		5	9
7	Medak	Pulkal	Gangluru	1	18	1	9	2		15	1			6
8	Medak	Pulkal	Gangojipet	5	14	1	15	5	1	12	7	3	1	10
9	Medak	Pulkal	Pulkal	3	17		11	3		17	2			9
10	Medak	Tekmal	Dhannaram	1	19		14	3		17	3			10
11	Medak	Tekmal	Palvancha	2	17	1	15	2		19	8			1
			Total	20	193	7	145	20	1	177	29	3	6	130
			%	9.09	87.73	3.18	65.91	9.09	0.45	80.45	13.18	1.36	2.73	59.09



No. of households possessing Livestock by the Command Area Sample Households

Sl No	District	Mandal	Village	Cows		She- Buffaloes		He- Buffaloes		Calves		Bullocks		Sheep		Goat		Pig		Poultry	
				Local	Improve d	Local	Improve d	Local	Improve d	Local	Improve d	Local	Improve d	Local	Improve d	Local	Improve d	Local	Improve d	Local	Improve d
1	Medak	Alladurgu	Neeradigunta	0	0	17	0	0	0	17	0	1	0	0	0	5	0	3	0	11	0
2	Medak	Alladurgu	Yarraram	3	0	13	0	2	0	13	0	13	0	7	0	6	0	1	0	2	0
3	Medak	Andol	Almaipeta	0	0	15	0	0	0	15	0	0	0	0	0	0	0	0	0	3	0
4	Medak	Andol	Dakoor	1	0	14	0	1	0	12	0	0	0	1	0	0	0	0	0	7	0
5	Medak	Munipalli	Mansapalli	2	0	14	0	0	0	9	0	0	0	1	0	3	0	0	0	8	0
6	Medak	Pulkal	Eskojipet	3	0	3	0	1	0	4	0	4	0	0	0	2	0	0	0	0	0
7	Medak	Pulkal	Gangluru	5	0	2	0	2	0	3	0	9	0	6	0	5	0	0	0	0	0
8	Medak	Pulkal	Gangojipet	5	1	8	1	6	0	12	0	5	0	1	0	3	0	0	0	3	0
9	Medak	Pulkal	Pulkal	6	0	6	0	7	0	9	0	5	0	1	0	3	0	0	0	2	0
10	Medak	Tekmal	Dhannaram	8	1	14	1	2	1	12	1	9	1	7	1	5	0	0	0	7	0
11	Medak	Tekmal	Palvancha	5	0	15	0	0	0	15	0	17	0	8	0	8	0	0	0	2	0
	Sub Total			38	2	121	2	21	1	121	1	63	1	32	1	40	0	4	0	45	0
	% of HH possessing Livestock			17.3	0.9	55	0.9	9.5	0.5	55	0.5	28.6	0.5	14.5	0.5	18.2	0	1.8	0	20.5	0



Annexure XI.12

No. of Households possessing Agricultural Assets in the Command Area Sample Households

Sl No	District	Mandal	Village	Tractor	Plough	Cultivator	Weeder	Duster	Thresher	Sprayer	Bullock cart	Others
1	Medak	Alladurgu	Neeradigunta		14	3	1			4	5	
2	Medak	Alladurgu	Yarraram		17	1	2			13	12	
3	Medak	Andol	Almaipeta									
4	Medak	Andol	Dakoor							1		
5	Medak	Munipalli	Mansapalli									
6	Medak	Pulkal	Eskojipet	1	9					2	3	
7	Medak	Pulkal	Gangluru	1	8	1	1		2	4	6	1
8	Medak	Pulkal	Gangojipet		4					7	6	
9	Medak	Pulkal	Pulkal	3	6	1				3	6	
10	Medak	Tekmal	Dhannaram		7					3	5	1
11	Medak	Tekmal	Palvancha		18					15	17	
			Total	5	83	6	4	0	2	52	60	2
			%	2.27	37.73	2.73	1.82	0	0.91	23.64	27.27	0.91



Sources of Irrigation: Command Area Sample Farmers

Sl No	DISTRICT	Mandal	Village	No. of Farmers Having Irrigation Source				Area under Irrigation, ha				
				Canal	Tank	Open Well	Bore Well	Canal	Tank	Open Well	Bore Well	Total
1	Medak	Alladurgu	Neeradigunta				20				17.6	17.6
2	Medak	Alladurgu	Yarraram	1			15	2			14.4	16.4
3	Medak	Andol	Almaipeta				8				7.6	7.6
4	Medak	Andol	Dakoor				13				10.2	10.2
5	Medak	Munipalli	Mansapalli				19				15.8	15.8
6	Medak	Pulkal	Eskojipet		4	2	11		2.6	0.8	11.6	15
7	Medak	Pulkal	Gangluru		1		13		0.2		20.2	20.4
8	Medak	Pulkal	Gangojipet	4			15	3.6			13.3	16.9
9	Medak	Pulkal	Pulkal	1		1	10	0.4		4.8	10.6	15.8
10	Medak	Tekmal	Dhannaram	1			16	1.6			25.5	27.1
11	Medak	Tekmal	Palvancha				15				19.6	19.6
			Total	7	5	3	155	7.6	2.8	5.6	166.4	182.4
			%	3.18	2.27	1.36	70.45	4.17	1.54	3.07	91.23	100



Awareness and Adoption of Improved Agricultural Practices by the Command Area Sample Farmers

Sl No	District	Mandal	Village	Soil testing		Deep Ploughing		Use of Imp seed		Seed treatment		Imp Nursery		Effi Water Mngt		Use of Balance Chemi		Use of Organic Mannur		Use of Vermi Compost		Post Harvest Mngt Practices	
				Aware	Adopted	Aware	Adopted	Aware	Adopted	Aware	Adopted	Aware	Adopted	Aware	Adopted	Aware	Adopted	Aware	Adopted	Aware	Adopted	Aware	Adopted
1	Medak	Alladurgu	Neeradigunta	20	7	20	9	20	19	20	18	14	1	5		8	3	20	20	17	1	1	1
2	Medak	Alladurgu	Yarraram	20	2	20	9	20	20	19	17	18	7	4	3	6	2	13	10	18	2	5	3
3	Medak	Andol	Almaipeta	20	4	19	11	20	19	20	20	4		5		8	4	19	19	4			
4	Medak	Andol	Dakoor	20	3	20	7	20	17	20	20	11		3	1	5	2	20	20	14	2	3	3
5	Medak	Munipalli	Mansapalli	20	6	20	14	20	20	20	19	10	6	10	4	7	1	14	14	7	2		
6	Medak	Pulka	Eskojipet	20	4	20	8	19	18	18	18	17	8	8	6	8	5	18	18	19	1	12	1
7	Medak	Pulka	Gangluru	20	3	20	6	19	19	20	19	20	9	11	7	6	2	19	18	20	2	14	2
8	Medak	Pulka	Gangojipet	20	4	20	11	16	15	16	15	8	3	4	3	5	2	12	8	11	1	3	2
9	Medak	Pulka	Pulka	18	3	18	5	18	15	17	15	7	4	3	3	3	1	11	10	7		2	
10	Medak	Tekmal	Dhannaram	20	2	20	16	20	20	20	19	15	6	5	7	7	2	17	16	14	5	3	4
11	Medak	Tekmal	Palvanha	20	2	20	9	20	19	19	19	16	7	7	6	4	1	12	11	17	2	4	
Sub Total				218	40	217	105	212	201	209	199	140	51	65	40	67	25	175	164	148	18	47	16
% Total				99.1	18.18	98.6	47.73	96.4	91.4	95	90.5	63.6	23.18	29.55	18.18	30.45	11.36	79.5	74.5	67.3	8.18	21.4	7.3



Source-wise Income of Sample Household in the Command Area

Sl No	Village	Source of Income, No of HH													
		Total Income from Agri.	Agri expenditure	Net Income from Agri.	Wages	Dairy	Business	Land Lease	Poultry	Fish	Rent	Artisans	Service	Cottage industry	Total
1	Neeradigunta	20	20	20	17	13		1				10	10		111
2	Yarraram	20	20	20	10	8							1		79
3	Almaipeta	20	20	20	20	15									95
4	Dakoor	20	20	20	20	15				1					96
5	Mansapalli	20	20	20	18	14		1	1						94
6	Eskojipet	20	20	20	11	1							1		73
7	Gangluru	20	20	20	6	2							4	2	74
8	Gangojipet	20	20	20	10	9		1	1			5	2	1	89
9	Pulkal	20	20	20	12	7						1	1		81
10	Dhannaram	20	20	20	8	7				2			1		78
11	Palvancha	20	20	20	10	11		4			1	5	2		93
	Total	220	220	220	142	102	0	7	2	3	1	21	22	3	963
	%	100	100	100	64.55	46.36	0	3.18	0.91	1.36	0.45	9.55	10	1.36	437.73



Source-wise income of Sample Households in Command Area

Sl No	Village	Source of Income, Amount in Rs													
		Total Income from Agri.	Agri expenditure	Net Income from Agri.	Wages	Dairy	Business	Land Lease	Poultry	Fish	Rent	Artisans	Service	Cottage industry	Total Income
1	Neeradigunta	2,249,000	1,583,500	665,500	495,000	117,000		4,000				170,000	108,000		1,559,500
2	Yarraram	2,544,500	1,769,500	775,000	234,000	137,000							15,000		1,161,000
3	Almaipeta	1,791,000	994,000	797,000	390,000	63,000									1,250,000
4	Dakoor	1,941,000	996,000	945,000	335,000	69,000				12,000					1,361,000
5	Mansapalli	2,368,000	1,451,000	917,000	260,000	87,500		50,000	500						1,315,000
6	Eskojipet	1,232,000	875,000	357,000	203,000	3,600							10,000		573,600
7	Gangluru	1,471,000	1,091,000	380,000	162,000	45,000							95,000	26,400	708,400
8	Gangojipet	1,517,000	1,314,500	202,500	202,000	21,500		15,000	100			102,000	35,000	20,000	598,100
9	Pulkal	1,597,000	1,208,000	389,000	152,000	53,000						15,000	2,000		611,000
10	Dhannaram	1,386,000	927,000	459,000	150,000	107,000				36,000			16,000		768,000
11	Palvancha	2,677,500	1,859,500	818,000	270,000	123,000		22,000			15,000	70,000	15,000		1,333,000
	Total	20,774,000	14,069,000	6,705,000	2,853,000	826,600	0	91,000	600	48,000	15,000	357,000	296,000	46,400	11,238,600
	% to Total			59.7	25.4	7.4	0	0.8	0	0.4	0.1	3.2	2.6	0.4	100
	Ave. Rs/HH			30,477	20,092	8,104	0	13,000	300	16,000	15,000	17,000	13,455	15,467	51,085



Expenditure of Sample Household in the Command Area

Sl No	Village	Means of Expenditure, No of HH										
		Food Grains	Food Items	Education	Health	Transportation	Fuel	House Improvement	Loan repayment	Religious functions	Others exp	Total HH
1	Neeradigunta	20	20	17	20	20	20	20	10	20	1	20
2	Yarraram	20	19	19	19	19	19	19		19		20
3	Almaipeta	20	20	20	20	20	20		7	20		20
4	Dakoor	20	20	17	20	20	20		2	19	1	20
5	Mansapalli	20	20	19	20	20	20	1	7	20		20
6	Eskojipet	20	20	20	20	17	20	3	14	20		20
7	Gangluru	20	20	20	20	20	20		15	20		20
8	Gangojipet	20	20	19	20	20	20	9	16	19		20
9	Pulkal	20	19	19	19	19	19	9	8	19		20
10	Dhannaram	20	20	17	20	20	20		18	20		20
11	Palvancha	20	18	18	18	18	18	13	3	18	1	20
	Total	220	216	205	216	213	216	74	100	214	3	220
	%	100	98.18	93.18	98.18	96.82	98.18	33.64	45.45	97.27	1.36	100



Expenditure of Household Sample in the Command Area

SI No	Village	Means of Expenditure, Amount in Rs										
		Food Grains	Food Items	Education	Health	Transportation	Fuel	House Improvement	Loan repayment	Religious functions	Others exp	Total Expenditure
1	Neeradigunta	159,000	84,000	96,000	122,000	86,500	40,200	187,000	64,000	366,000		1,045,700
2	Yarraram	76,500	73,300	38,600	37,700	29,000	35,000	252,000		173,000		638,600
3	Almaipeta	204,000	109,500	35,500	70,000	24,650	38,800		115,500	111,000		504,950
4	Dakoor	191,000	101,000	19,700	48,800	23,900	50,400		25,000	96,200	3,500	368,500
5	Mansapalli	289,500	123,000	21,300	53,500	23,800	31,000	2,500	95,000	107,000		457,100
6	Eskojipet	203,000	203,000	119,000	91,000	57,000	54,000	40,000	94,000	192,000		850,000
7	Gangluru	220,000	299,000	168,500	115,500	85,000	74,500		118,000	177,000		1,037,500
8	Gangojipet	240,000	160,200	144,000	124,500	95,400	61,100	104,000	125,000	175,500		989,700
9	Pulkal	147,200	94,300	49,000	42,000	27,100	27,000	57,500	29,500	118,500		444,900
10	Dhannaram	228,000	244,000	103,000	111,000	83,000	42,800		90,000	193,000		866,800
11	Palvancha	144,100	49,000	131,500	100,000	60,500	34,000	198,000	35,000	229,000	15,000	852,000
	Total	2,102,300	1,540,300	926,100	916,000	595,850	488,800	841,000	791,000	1,938,200	18,500	8,055,750
	% to Total	26.1	19.1	11.5	11.4	7.4	6.1	10.4	9.8	24.1	0.2	100
	Ave. Rs/HH	9,556	7,131	4,518	4,241	2,797	2,263	11,365	7,910	9,057	6,167	36,617



Annexure XI.19

Indebitness of Sample household in the Command Area

Sl No	Village	Source-wise Loans: No of HH					
		Bank	Co-operative Society	Friends relatives	Money Lender	SHG	Total
1	Neeradigunta	4		5	6		15
2	Yarraram	5	1	1	9		16
3	Almaipeta	13		5			18
4	Dakoor	15	2	2			19
5	Mansapalli	7	3	2		3	15
6	Eskojipet	11	1	4	3		19
7	Gangluru	4	5	5	2		16
8	Gangojipet	9	1	2	6		18
9	Pulkal	9	2		5	2	18
10	Dhannaram	7	1	1	7		16
11	Palvancha	10	4	4	2		20
	Total	94	20	31	40	5	190
	%	42.73	9.09	14.09	18.18	2.27	86.36



Annexure XI.20

Indebitness of Sample household in the Command Area

Sl No	Village	Source-wise Loans, Amount in Rs					
		Bank	Co-operative Society	Friends relatives	Money Lender	SHG	Total
1	Neeradigunta	115,000		100,000	140,000		355,000
2	Yarraram	155,000	30,000	15,000	495,000		695,000
3	Almaipeta	410,000		95,000			505,000
4	Dakoor	355,000	25,000	60,000			440,000
5	Mansapalli	205,000	95,000	15,000		45,000	360,000
6	Eskojipet	316,000	30,000	215,000	105,000		666,000
7	Gangluru	70,000	190,000	320,000	100,000		680,000
8	Gangojipet	1,215,000	30,000	50,000	700,000		1,995,000
9	Pulkal	255,000	55,000		205,000	25,000	540,000
10	Dhannaram	205,000	10,000	25,000	190,000		430,000
11	Palvancha	455,000	200,000	185,000	110,000		950,000
	Total	3,756,000	665,000	1,080,000	2,045,000	70,000	7,616,000
	% to Total	49.3	8.7	14.2	26.9	0.9	100



Status of Implementation of Catchment Area Treatment Plan

Annexure XIII.1

Sub-Watersheds wise land use and land cover in the Catchment of Singur Project												
Sl no	Particulars	Area in ha										Total of S1 to S10
		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	
1	Agricultural Land-Crop Land-Two crop area	2601.59	1727.57	2282.30	770.23	1042.57	2601.49	2815.18	1469.46	2012.60	5483.94	22806.93
2	Agricultural Land-Crop Land-single crop	9896.41	5404.46	4541.32	2620.61	2016.13	6641.20	5972.33	5371.95	6563.59	5494.79	54522.80
3	Built Up Area	117.25	77.75	41.35	27.96	45.39	60.28	98.44	144.64	74.70	130.00	817.76
4	Waterbodies-Reservoir/Tanks	438.37	249.81	25.77	0.32		109.12	223.40	54.86	273.65	22.71	1398.01
5	Waterbodies-River/Stream	45.84	63.27	88.49	29.82	82.43	154.56	139.27	55.96	46.39	193.20	899.22
6	Agricultural Land-Fallow-Current Fallow		2.02				30.13	13.29			17.08	62.53
7	Wastelands		317.68	172.83	12.16	49.68	708.60	496.44	97.73		146.05	2001.18
8	Agricultural Land-Plantation-Agriculture Plnt.										7.39	7.39
9	Forest-Forest Plantation											
10	Forest-Tree Clad Area											
11	Forest-Deciduous (Dry/Moist/Thorn)-Open											
12	Forest-Scrub Forest											
13	Forest-Forest Blank											
Total area (ha)		13099.45	7842.56	7152.06	3461.10	3236.19	10305.38	9758.35	7194.61	8970.93	11495.17	82515.81



Sub-Watersheds wise land use and land cover in the Catchment of Singur Project												
Sl no	Particulars	Area in ha										Total of S11 to S20
		S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	
1	Agricultural Land-Crop Land-Two crop area	6526.06	3864.46	3928.65	5068.03	3368.15	3207.27	1220.69	1801.15	524.84	285.11	29794.41
2	Agricultural Land-Crop Land-single crop	5411.05	6463.40	3119.43	4608.04	5272.57	2239.48	5041.23	5062.12	4060.80	1444.99	42723.12
3	Built Up Area	123.77	78.12	67.87	73.75	82.19	57.26	110.65	227.18	114.45	80.70	1015.93
4	Waterbodies-Reservoir/Tanks	66.05	118.21	42.89	44.75	17.88	9.70	1.51	960.45	1486.61	2465.07	5213.13
5	Waterbodies-River/Stream	114.47		119.78	155.31	137.73	85.65	326.25	548.28		2.21	1489.67
6	Agricultural Land-Fallow-Current Fallow	3.26	83.76	282.09	48.03	84.59	176.83	2362.37	1130.87	1298.98	1474.68	6945.47
7	Wastelands	65.13	45.52	376.48	988.78	840.47	1046.65	1948.12	1181.77	190.79	102.50	6786.22
8	Agricultural Land-Plantation-Agriculture Plnt.		20.62	8.51	34.72	45.40	11.12					120.37
9	Forest-Forest Plantation				13.56							13.56
10	Forest-Tree Clad Area								63.20	210.47		273.67
11	Forest-Deciduous (Dry/Moist/Thorn)-Open											
12	Forest-Scrub Forest											
13	Forest-Forest Blank											
Total area (ha)		12309.78	10674.09	7945.71	11034.97	9848.98	6833.97	11010.81	10975.02	7886.93	5855.28	94375.54



Status of Implementation of Catchment Area Treatment Plan

Annexure XIII.1 Contd..

Sub-Watersheds wise land use and land cover in the Catchment of Singur Project												
Sl no	Particulars	Area in ha										Total of S21 to S30
		S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	
1	Agricultural Land-Crop Land-Two crop area	558.02	1177.92	602.72	1219.00	1667.11	519.84	608.90	3210.99	4582.56	5653.37	19800.43
2	Agricultural Land-Crop Land-single crop	8179.24	11139.59	5195.00	8125.49	7886.94	1331.87	2507.87	2010.04	5431.40	4568.24	56375.68
3	Built Up Area	138.82	225.22	104.43	169.27	181.61	159.95	560.99	76.60	75.96	110.80	1803.65
4	Waterbodies-Reservoir/Tanks	1904.78	231.73	3653.46	1153.45	76.66	53.99	120.44	94.32	88.72	72.33	7449.87
5	Waterbodies-River/Stream	44.51	57.01		59.53	538.20	254.75	106.36	111.43	129.96	44.24	1345.98
6	Agricultural Land-Fallow-Current Fallow	150.29	537.13	291.56	442.49	2565.02	9558.60	7997.49	1692.68	52.28		23287.53
7	Wastelands	414.69	3010.09	912.98	944.48	1989.04	2049.55	1121.48	960.53	470.49	403.69	12277.02
8	Agricultural Land-Plantation-Agriculture Plnt.		9.01		16.39		10.60	14.97	58.56	49.92		159.45
9	Forest-Forest Plantation					3.46	8.52		438.11	231.98	251.12	933.19
10	Forest-Tree Clad Area											
11	Forest-Deciduous (Dry/Moist/Thorn)-Open		199.08			76.74	55.97					331.78
12	Forest-Scrub Forest		256.71			127.88	84.65		360.80	73.80	241.80	1145.64
13	Forest-Forest Blank					12.95	1.15		101.42	126.81	30.21	272.53
Total area (ha)		11390.35	16843.48	10760.14	12130.09	15125.61	14089.43	13038.50	9115.47	11313.87	11375.81	125182.77

Annexure XIII.1 Contd..



Status of Implementation of Catchment Area Treatment Plan

Sub-Watersheds wise land use and land cover in the Catchment of Singur Project

Sl no	Particulars	Area in ha										Total of S31 to S40
		S31	S32	S33	S34	S35	S36	S37	S38	S39	S40	
1	Agricultural Land-Crop Land-Two crop area	12101.30	4453.59	1770.82	5872.59	2234.05	4066.97	3819.52	2745.26	2627.92	3969.71	43661.72
2	Agricultural Land-Crop Land-single crop	5942.55	5991.79	2970.91	4621.09	3679.22	6703.10	5159.94	5862.39	3606.04	4042.61	48579.64
3	Built Up Area	191.17	84.04	37.22	227.99	49.08	78.40	81.43	85.60	41.29	216.14	1092.38
4	Waterbodies-Reservoir/Tanks	3.22	42.58	16.29	46.50			5.14		9.80	50.64	174.17
5	Waterbodies-River/Stream	167.14	39.74	97.60	93.59	77.66	55.34	48.50	30.14	4.43	151.36	765.52
6	Agricultural Land-Fallow-Current Fallow	93.71	59.66		19.33		87.82	205.18	48.73	47.08		561.52
7	Wastelands	374.91	220.35	173.90	205.30	121.99	202.31	226.91	152.27	139.58	188.59	2006.11
8	Agricultural Land-Plantation-Agriculture Plnt.	45.41			6.53		28.37					80.31
9	Forest-Forest Plantation	3.08										3.08
10	Forest-Tree Clad Area											
11	Forest-Deciduous (Dry/Moist/Thorn)-Open											
12	Forest-Scrub Forest											
13	Forest-Forest Blank											
Total area (ha)		18922.49	10891.76	5066.74	11092.91	6162.00	11222.32	9546.62	8924.40	6476.16	8619.05	96924.45



Annexure XIII.1 Contd..

Sub-Watersheds wise land use and land cover in the Catchment of Singur Project						
Sl no	Particulars	Area in ha			Total of S41 to S43	Grand Total of S1 to S43
		S41	S42	S43		
1	Agricultural Land-Crop Land-Two crop area	3026.78	1990.49	3583.20	8600.47	124663.97
2	Agricultural Land-Crop Land-single crop	4622.22	4510.36	5348.62	14481.20	216682.43
3	Built Up Area	131.66	84.73	102.46	318.85	5048.5753
4	Waterbodies-Reservoir/Tanks	133.77	120.37		254.14	14489.318
5	Waterbodies-River/Stream	17.60	55.99	132.85	206.44	4706.8233
6	Agricultural Land-Fallow-Current Fallow			83.07	83.07	30940.115
7	Wastelands	298.62	378.93	304.50	982.05	24052.569
8	Agricultural Land-Plantation-Agriculture Plnt.					367.53038
9	Forest-Forest Plantation					949.83501
10	Forest-Tree Clad Area					273.66705
11	Forest-Deciduous (Dry/Moist/Thorn)-Open					331.7827
12	Forest-Scrub Forest					1145.6361
13	Forest-Forest Blank					272.53445
Total area (ha)		8230.64	7140.87	9554.71	24926.22	423924.79



ANNEXURE – XIII.2

**DESIGN AND ESTIMATED COST OF STAGGERED CONTOUR TRENCHES
(For Horticultural Plantations)**

Slope of land	-	10% to 35%
Average depth of soil	-	0.90 m
Length of contour trench	-	5.00 m
Width of trench	-	45 cm
Depth of trench	-	50 cm
CS of trench	-	2.25 sq m
Spacing between the trenches in same row	-	3.30 m
Horizontal spacing	-	5.00 m
Continuous trench after every 5 rows of trenches, need to be provided to arrest excess run-off and silt. The trenches will be constructed across the slope and along the contour line to make it efficient System for conservation of soil and water.		
Total No. of trenches per ha	-	180 nos.
Total length of trenches per ha including 3 nos Continuous trenches.	-	1,200 m
Earth work involved	-	270.0 cum
Jungle area to be cleared @ 1 sq m throughout the length	-	1,200 sq m
Cost of Jungle clearing etc @ ` 0.5113 per sq m	-	` 613.56
Cost of excavation of trenches: 270.0 cum x ` .39.00-		` 10530.00
Total cost	-	` 11143.56
5% contingency	-	` 557.18
Grand Total	-	` 11701 per ha



ANNEXURE–XIII.3

ESTIMATED COST FOR EACH DOUBLE ROW POST BRUSH DAM

Average depth of gully	-	2.25 m
Average width of gully	-	6.00 m
Earth work for excavation of bed and abutments (sides) upto 15 cm depth for a width of 1.00 m = (12.36 m x 0.15 m x 1.00 m)	-	1.85 cum
No. of 12 cm diameter, 5.00 m long stakes	-	28 Nos.
Cost of earth work excavation @ Rs.39.00 per cum	-	` 72.15
Cost of 28 Nos. stakes @ Rs.42.00 each	-	` 1176.00
Cost of miscellaneous articles like galvanized wire, Repe etc. on lump sum basis	-	` 250.00
Labour charges for 1 day = (2 nos. @ 100.00 per day)	-	<u>` 200.00</u>
Total	-	<u>` .1698.15</u>
Contingency @ 5%	-	` 84.90
Grand Total	-	` 1783.05
Say	-	` 1783.00



ANNEXURE– XIII.4

ESTIMATE OF LOOSE BOULDER CHECK DAM
(Considering 10.00 m width and overall Length of 12.40 m)

1. Boulder Sausage

- a) Earth work in excavation including removing the spoils as directed upto a distance of 100 m including dressing, cambering, grading the surface etc complete as directed.
- b) Loose bolder above one man size or soil mixed with boulders above one man size or soft shale not requiring blasting.

Body wall side	$2 \times \frac{(0.30 \text{ m} + 1.20 \text{ m})}{2} \times 1.20 \text{ m}$	-	1.80 cum
Body wall foundation	10.00 m x 1.00 m x 0.30 m	-	3.00 cum
Down stream side apron	10.00 m x 0.90 m x 0.15 m	-	1.35 cum
Sub-Total :	@ 42.00 per cum	-	6.15 cum ` 258.30

2. Collection of hard river boulder at quarry size 23 cm to 30 cm (man size) of weighing not less than 40 kg free from dirt and dust and other foreign impurities.

Body wall bottom	10.00 m x 1.00 m x 0.30 m	-	3.00 cum
Body wall	$12.4 \text{ m} \times \frac{(1.0 \text{ m} + 0.3 \text{ m})}{2} \times 0.3 \text{ m}$	-	2.42 cum
Stepped wall	2 x 0.60 m x 0.30 m x 0.30 m	-	0.11 cum
	2 x 0.60 m x 0.60 m x 0.30 m	-	0.22 cum
	2 x 1.20 m x 0.90 m x 0.30 m	-	0.65 cum
Upstream apron	2 x 0.60 m x 0.30 m x 0.30 m	-	1.35 cum
Sub-Total :	@ 88.00 per cum (Forest royalty rate)	-	7.75 cum Rs.682.00



ANNEXURE– XIII.4
Contd..

ESTIMATE OF LOOSE BOULDER CHECK DAM
(Considering 10.00 m width and overall Length of 12.40 m)

3. Cost of dumping of boulders and making 8.6 wire sausage wire cages including fixing and fitting and placing in position are :

Size of one cage 1.51 m x 1.51 m x 0.45 m - 1.03 m³

No. of cages Total quantity of boulders
Required Size of cage

Total Quantify 7.75 cum Say 8 Nos
As per item No.2 (1.51 m x 1.51 m x 0.45 m)

Cost per one cage comes to ` 1260/- - ` 11408.00

(As per SSR per CUM Rs 184 (7.75 x 184 =Rs 1426.00)

Total: - ` 12348.30

4. Add 5% contingency - ` 617.41

Grand Total: - ` 12965.72

Say - ` 12966/-

Average cost per running Rs.12966.00 - ` 1045.62

Meter length 12.40 m Say - ` 1046/- per meter



ANNEXURE XIII.5

TECHNICAL DETAILS OF MINI-PERCOLATION TANKS		
Sl.No	Description of Parameter	Dimension adopted
	Works involved	Earthwork excavation and formation of bank
1	Average length of mini-percolation tank	120 m
2	Top width of bank	2.0 m
3	Width at bottom	9.0 m
4.	Front side slopes	1 ½ : 1
5	Rear side slopes	2 : 1



Part – II



Appendix



AFC, Hyderabad

Appendix – A.1

**GLIMPSES
OF
FOCUS GROUP DISCUSSIONS**

Group I

Name of the Dist : **Medak**
 Name of the Mandal : **Pulkal**
 Name of the Village (Submerge) : **Mantoor**
 Name of the Rehabilitated Village : **Mantoor**
 Date of Visit : **07.10.2010**

Name of oustees (Participated in Focus Group Discussion – FGD) and their Landholdings
 – Submerged and present holdings

MANTOOR VILLAGE OF PULKAL MANDAL				
Sl. No	Name of the participatory	Name of the Father	Landholding in Acres	
			Before	After
1	Myathri Sangaian	S/o Nagaiah	1.5	1
2	Mangali Ramulu	S/o Bagaiah	4	4
3	Thalari Laxmaiah	S/o Balaiah	1	0.5
4	Kuthbuddin	S/o Faiz Uddin	4.5	3
5	Dharji Buchappa	S/o Basappa	6.25	1.5
6	Kajamiya	S/o Mahamad Pater	25	0
7	Mahaboob	S/o Hussan Sab	0	0
8	Harijan Lachaiah	S/o Yellaiah	0.25	0.5
9	Book Ismali	S/o Dausab	1	6
10	Askoor Malakaiah	S/o Sivaiah	16	4
11	Mot Narsaiah	S/o Durgaiah	3	2
12	Neerudi Papaiah	S/o Gangaiah	2	1
13	Fakuruddin	S/o Moulal Sab	2	2
14	Maisani Anjaiah	S/o Yellaiah	1	0
15	Syed Khajamiya	S/o Syed Sab	3	3
16	Kalali Anantha Ramulu	S/o Papaiah	9	3.5
17	Aijaz Patel	S/o Sulthan Patel	50	20
18	Naseruddin	S/o Mohammed Ali Ansari	25	10



Process of Resettlement and Rehabilitation:

Village community of Mantoor village (Fully submerged) was informed by project officials in advance with the terms and conditions about the project activity and details about evacuating the village which was going to be submerged under the project

The village community was reluctant to evacuate the area despite several attempts by officials to convince them. However, at the last moment, the authorities brought the lorries and forcibly evacuated them.

In the meanwhile, officials had carried out the village survey as well as identified the new settlement area. The house site plotting with size of plot had carried out and the choice was given to the affected families to select their house site plots. On an average 30x30 m & 40x55 m plots were carved out for allotment. In all there were

	No of Plots	Size
i)	72	30 x 30 m
ii)	360	40 x 35 m

The oustees could not recapitulate the rationale behind having two size plots which were allotted to them. Further, it was reported that – 72 families had occupied the house site while about 30 to 40 per cent families who were allotted 40 x 35 m size plots, migrated to other places and the rest occupied the allotted sites.

Each of the household was given `15000/- as compensation towards the cost of house construction. The land holding compensation was given @ `4000/Ac. It was promised to them that the land compensation would be paid in two installments. Accordingly the 1st installment was paid at the time of evacuation and the second installment was paid to about 40 per cent oustees only. About 60 per cent of them are still to be paid. According to then, full settlement of land compensation could not be settled due to legal complications.

Creation of infrastructural facilities in the new settlement The demarcation of house plotting is observed to be a planned one with lane, by lane roads as well as with open drainage facility. Street light and domestic power connectivity was provided. The colony has central drinking water supply facility. However, it is reported that the water supply is very irregular. The colony population, as reported, is depending on drinking water from the only bore well which is possessed by village Sarpanch.

With regard to health facilities, it is observed that –one PHC-Sub-centre building was constructed, which is presenting lying idle i.e., without doctor, amenities and equipments. Same is the case with veterinary services centre also.

The landless and rural artisans did not get any financial assistance from the project. The common prevalent diseases in the rehabilitated area, as reported, are Malaria, Chicken guinea and Typhoid.



Expectations from project as perceived by Oustees

- Drinking water supply be regularized
- Bus services to the rehabilitated village
- Lift irrigation be allowed from dam as bore wells have failed in the area
- * “Hamara Pani Hamein Nahi Mil Raha Hai” quoted by Participants
- Advice / guidance on Improved Agricultural practices including Horticulture

Brief Sketch of Mantoor village		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
Village Condition		
- Drainage	Katcha – on contour	Pacca - flat - shallow
- Electricity	No	No
- Road	Katcha	Semi pacca - Metal Road
- Community Hall	No	Yes
- Medical facilities	AVM – No sub eclvhe	Building exisits – ideal – AVM visit
- Veterinary services	No	Building exisits – ideal – No service
- Bus services	No	Yes
Agricultural Scenario		
- Lands conditions	Very Fertile – Black cotton soil	Chalka, - Not fertile
- Source of irrigation	Tanks (3)	Rainfed
- Yield levels A/c		
• Paddy	18 – 19 Qtls	9 – 10 Qtls
• Greengram	7 - 8 Qtls	3 – 4 Qtls
• Blackgram	6 - 7 Qtls	2 – 4 Qtls
• Redgram	4 – 5 Qtls	2 – 3 Qtls
• Sugarcane	-	-
• Cotton	-	5 - 6 Qtls
• Jowar	7 – 8 Qtls	3 – 5 Qtls
• Bengalgram	7 – 8 Qtls	2 – 3 Qtls
• Chillies	4 – 5 Qtls	2 – 3 Qtls
- Livestock Population		
• Cattle	On an average 6-8 – H H	2-4 / H H
• Buffaloes	3 – 4 / H H - (60 to 70 H H)	2 – 4 (Very few)
• Sheep	40 – 50 HH had	Very few
• Goat	2 – 5 / H H	Very few
- Culture Homogenity	Homogenity	Homogeneity
- Settlement pattern		
• Castewise	Compact and castewise	Ward – wise
• Religion	Mostly religion base lanes	Ward – wise



Brief Sketch of Mantoor village		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
• Economic conditions		
• income	₹. 8000 – 9000 / Ac	2000 – 4000 / Ac
• Indebtness	Moneylender (few)	Bank loan (mostly crop)
• Sufficiency in Food grains (Home consumption)	Surplus	Not Surplus
• Housing condition	Pacca big house, huts, semi pacca	Tiled roof – less plinth area



Appendix-A.2

**GLIMPSES
OF
FOCUS GROUP DISCUSSIONS**

Group II

Name of the Dist : **Medak**
 Name of the Mandal : **Pulkal**
 Name of the Village (Submerge) : **Peddareddypet**
 Name of the Rehabilitated Village : **Peddareddypet**
 Date of Visit : **07.10.2010**

Name of oustees (Participated in Focus Group Discussion – FGD) and their Landholdings
 – Submerged and present holdings

PEDDAREDDI PET VILLAGE OF PULKAL MANDAL				
Sl. No	Name of the participatory	Name of the Father	Landholding in Acres	
			Before	After
1	Ganthe Buchaiah	S/o Manaiah	0.25	0
2	Badrappa	S/o Adivappa	8	18
3	Koropolu Sivaiah	S/o Papaiah	6	3
4	Yacharam Balaiah	S/o Balaiah	2	0
5	Patnam Srinivas	S/o Balaiah	2	0
6	Mangali Laxmaiah	S/o Balaiah	10	6
7	Sara Anajah	S/o Laxmaiah	6	6
8	Muturasupally Anjappa	S/o Lingappa	6	6
9	Munipally Narasimha	S/o Sangaiah	21	8
10	Ausali Badraiah	S/o Siva	5	0
11	Erra Kistaiah	S/o Lingaiah	20	0
12	Burugupally Mallesham	S/o Narsimulu	17	10
13	Uttarpally Chandraiah	S/o Ramaiah	15	0.75
14	Mangali Mallesham	S/o Mogulaiah	2	4
15	Govind Reddy Gari Srinivas Reddy	S/o Narsa Reddy	15	6
16	Peddagolla Subash	S/o Buchaiah	12	9.5
17	Mula Mogulaiah	S/o Sangaiah	5	3.5
18	Mahaboob Ali	S/o Moulan sab	12	2
19	Mula Kistaiah	S/o Mallaiah	3	0
20	Singoori Beeraiah	S/o Babaiah	12	10
21	Yarra Gangaram	S/o Sangaiah	2	1.5
22	Molla Nazeer	S/o Ibrahim	4.5	4



PEDDAREDDI PET VILLAGE OF PULKAL MANDAL				
Sl. No	Name of the participatory	Name of the Father	Landholding in Acres	
			Before	After
23	Parvegari Prabhakar	S/o Balaiah	35	5
24	Kavile Papaiah	S/o Papaiah	2	1
25	Madagari mallaiah	S/o Gangaiah	6.75	6
26	Amdala Ramaiah	S/o Advaiiah	1.75	2
27	Amdala Rathanamma	W/o Ramaiah	1.75	2
28	Mula Ramaiah	S/o Mallaiah	1.5	0
29	Mambigari Vittal	S/o Sangaiah	7	2
30	Akula Sharif	S/o Osman	2.75	2
31	Mula Chinaramaiah	S/o Sangaiah	2	0.25

Process of Resettlement and Rehabilitation:

The Focus Group Discussions held with the members of oustees (Rehabilitated families) revealed that after apprising the villagers of old settlement (Submerged village) about the evacuation of the area, as the village was going to be submerged in due course and asking them to evaluate and settle at the new earmarked (new settlement/habitation) area. They were also informed that they would be paid for the agricultural lands they possessed @ ` . 4000/Ac as well as free plot (30 x 40 mt) and ` .15000/- for house construction. Six months time was given to them for shifting. Further, the shifting was tagged with release of compensation installment. With much hesitation, ultimately oustees moved out and had made their own arrangements for shifting. It was further informed that about 25 percent of affected families (Evacuated) are yet to receive full and final compensation from the project which has been held up due to legal complexities.

Creation of infrastructural facilities in Rehabilitated Area: The new rehabilitated residential area is observed to be planned one. It has inner and outer road (metal) net working. The road and dwelling area are found to be having tree plantations which were planted by the oustees. Further, it is observed that though, at initial stage of rehabilitation in the dwelling area, a well planned open drainage lines were laid, these drainages have been silted and drain water is found to be over flowing. It is reported that laid drainage lines were very shallow, and in due course these drain lines got silted. Thus, the flowing drain lane affected the environment around.

The rehabilitated area has been found to be augmented with domestic tap water supply. The Satya Sai Trust is involved for the supply of drinking water. As per the dwellers, the supplied drinking water is not sufficient and hence, they depended on bore wells for the purpose.

There is no medical health and veterinary services available in the new settlement area and the oustees depended on mandal headquarters (Pulkal) for these services. However,



the ANM pays fortnightly visits, as reported, to the local Anganwadi. Malaria, Typhoid and Cough are the common diseases found in the area.

Among local animals, Foot and Mouth disease is reported found to be common in the area.

Sources of Irrigation: There is no tank irrigation in the new settlement area, however, there are about 10 bore wells which irrigate about 100 Acres of land, and otherwise, the farmers depend on rain water.

Crop grown: The major crops grown in the submerged area were Paddy, Green gram, Black gram, Red gram, Jowar and Cotton. In the new settlement the crops grown are found to be Green gram, Black gram, Red gram and Jowar. The paddy crop area in new settlement, as reported, has drastically been reduced. Major crop yields are presented in “Brief Sketch sheet attached.

Rural artisans and landless among oustees, did not get any financial assistance from project. No skill development training programs were conducted for oustees. No worship place found in the rehabilitated area, though it was promised to oustees by the project officials that new worship structures would be built in new settlement area.

Ousteers expectations from project:

- Adequate drinking water supply
- De-siltation of drainage lines laid
- Medical and health as well as veterinary service
- Construction of worship place / s
- Construction of community hall
- Full settlement of compensation at an early date for those whose cases are still pending.

Brief Sketch of Peddareddypet		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
Village Condition		
• Drainage	Katcha Drainage	Pacca Drainage lines, sited
• Electricity	Yes	Yes
• Road	Katcha	Metal Road
• Community Hall	Panchayat Building	No
• Medical facilities	No	No
• Veterinary services	Yes-Mobile unit	No, if complains, mobile service unit visits
• Bus services	No	Yes
Agricultural Scenario		
• Lands conditions	Fertile	Chalka, unfertile



Brief Sketch of Peddareddypet		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
· Source of irrigation	Tanks	No Tank, borewells about 10
· Yield levels A/c		
• Paddy	20 to 15 Qtls	15 to 18 Qtls
• Greengram	4 to 5 Qtls	2 to 3 Qtls
• Blackgram	4 to 5 Qtls	2 to 3 Qtls
• Redgram	-	2 to 4 Qtls
• Sugarcane	-	35 to 40 tons
• Cotton	-	5 to 6 Qtls
• Jowar	5 to 6 Qtls	3 to 4 Qtls
· Livestock Population		
• Cattle	4-5 – H H	2-4 (only 10% of oustees)
• Buffaloes	2-3 / (few)	1-2 (few)
• Sheep	10 to 15 units	2-4 units
• Goat	1-5 (most of HH)	No
· Culture Homogeneity	Yes	Yes
· Settlement pattern		
• Castewise	Mixed as well as caste-wise	Caste-wise
• Religion	Religion wise	Religion-wise
· Economic conditions		
• Percapita income	15 to 20 thousand / Ac	5 to 10 thousand / Ac
• Indebtness	Moneylender +crop loan	Crop loans – majority
• Sufficiency in Food grains (Home consumption)	Surplus	Hand to mouth
• Housing condition	Bungalow, Tilled roof, Huts and pucca house	Tilled roof houses.



Appendix-A.3

**GLIMPSES
OF
FOCUS GROUP DISCUSSIONS**

Group III

Name of the Dist : **Medak**
 Name of the Mandal : **Munipalle**
 Name of the Village (Submerge) : **Busireddipally**
 Name of the Resettlement Village : **Busireddipally**
 Date of Visit : **08.10.2010**

Name of oustees (Participated in Focus Group Discussion – FGD) and their Landholdings
 – Submerged land and present holdings

BUSIREDDY PALLY VILLAGE MUNIPALLY MANDAL				
Sl. No	Name of the participatory	Name of the Father	Landholding in Acres	
			Before	After
1	Mohammed Haneef	S/o Husman	15	5.5
2	Mohammed Sardar	S/o Kasim Sab	1	2
3	Lade Beeraiah	S/o Papaiah	3.75	3
4	Lade Lingamaiah	S/o Mallaiah	0	0
5	Gandla Prabhu	S/o Shankaraiah	25.5	4
6	Durganolla Boomaiah	S/o Nagaiah	5	0
7	Thalaridurgaiah	S/o Nagaiah	6	0
8	Kummari Mogulaiah	S/o Sivaiah	6	1
9	Bandari Mallaiah	S/o Beeraiah	5	4
10	Manne Shamaiah	S/o Ananthi	6.5	0
11	Nagani Balaiah	S/o Ambaiah	6.25	0
12	Durganolla Ramaiah	S/o Mogulaiah	3	0
13	Pattolla Basanth	S/o Ganapathi	6	1.5
14	Pattolla Ramshetty	S/o Ganapathi	6	1.5
15	Bandari Ashok	S/o Rachaiah	5	1
16	Lade Kistaiah	S/o Mallaiah	2.25	0
17	Saba Sangappa	S/o Chennppa	11	3
18	Manne Laxmaiah	S/o Ananthi	6.5	0
19	Peddapuram Kistaiah	S/o Devaiah	25	8
20	Raipally Sangaiah	S/o Galaiah	7.25	0
21	Sandi Sivaiah	S/o Mallaiah	10	3
22	Mudugumpally Nagaiah	S/o Mallaiah	2	2



BUSIREDDY PALLY VILLAGE MUNIPALLY MANDAL				
Sl. No	Name of the participatory	Name of the Father	Landholding in Acres	
			Before	After
23	Nirudi Mugulaiah	S/o Dhavulaiah	6	0.25
24	Sara Anjaiah	S/o Narasaiah	5	1.5
25	Padakanti Thajuddin	S/o Kaja Sab	25	5
26	Padakanti Nasir Uddin	S/o Husman Sab	15	7
27	Modugumpally Mogulaiah	S/o Mallaiah	2	2
28	Padakanti Nijam Uddin	S/o Kaja Sab	25	5
29	Padakanti Moulana Sab	S/o Kaja Sab	26	6
30	Padakanti Mahammed Haweefs	S/o Husman Sab	17	6
31	Padakanti Moin Uddin	S/o Husman Sab	17	5
32	Komsudapally Srisailam	S/o Laxmaiah	3.5	3.5

Process of Resettlement and Rehabilitation:

In the old settlement (submerged village), there were about 300 families. The submerged village was located in the low-lying area. The oustees were briefed about the project and project activities and informed the villagers that in due course (1 to 2 years), the habitation and agricultural lands would be submerged when the process of impounding of water in the dam starts. As such, the oustees would be allotted alternative habitation site in the uplands @ (in the form of house plots to each family as well as ₹. 16000/- for construction of new house at the allotted site. Besides this, the land holders were be paid ₹. 4000 per acre towards compensation for land. As such in the meanwhile, the process of house site plotting was carried out in a planned way. The oustees were given the choice for plot selection. Further, it was noted that the project officials had released the first installment of compensation for land as well as house construction for all oustees. In spite of this, the oustees were reluctant to shift their dwellings to new allotted site. In this situation, authorities stepped up and stopped all the essential facilities in the village which forced the people to evacuate the area. It is reported that about 200 families moved to new sites and about 100 families migrated to other places. The oustees had made their own arrangement for shifting. The FGD also revealed that a good number of oustees are yet to get full compensation from project authorities. The process of release of compensation has been held up due to legal litigations.

Creation of Infrastructural Facilities in the New Settlement Area:

In the new habitation, new roads net works (mostly metal road) were laid. Domestic and street light power connection was provided. Drinking water supply network has been laid. In this regard it is informed that initially it worked and later on it became defunct. At present, the new settlers mostly depend on bore-well water for the purpose. Pucca drainage line network has been laid in the area, and now most of it has been silted because of road widening.



With regard to medical facilities, it is informed that one PHC-Sub-Centre was planned for the village. At present, the habitant's depend on the PHC which is located at Sadasivpet mandal head quarters which is 20 km from the village. No water born disease reported from the village. Malaria and Typhoid are the common diseases observed in the village. The veterinary services are also not available in the village. The mobile unit of veterinary services visits the village once in three months. The bus service to this village was withdrawn. The new school building and community hall has been constructed in this new habitation. Seedlings were provided to the oustees and planting was done by oustees. The survival rate of plantation reported to be about 30 per cent.

Agricultural Lands: As mentioned earlier, land compensation was paid @ ` . 4000/Ac. For purchasing agricultural lands in new settlement, as reported the oustees, ` .12000 to 14000/Ac. In this regard the FGD revealed that the possession of land holding by individual oustees drastically came down as compared to what they were having in old village – eg. 10 acre land holder could purchase 2-3 acres of land in the new settlement with the amount land compensation. The purchased lands, as reported are chalka lands (Sandy looms) which are unfertile.

Irrigation Sources: In the old settlement there are two big tanks, as told by oustees, which were providing irrigation to about 200 Ac of land. In the new settlement also, there are two tanks, as reported, are able to irrigate only about 50 Ac of land, other-wise rainwater is the only source for the purpose. It is further observed that few of the oustees have laid bore wells jointly (4-5 farmers together) and sharing the water for irrigation jointly.

Crop Yields: The FGD revealed that in the new settlement, the crop yields have reduced to larger extent, though the farmer started using chemical fertilizer. It is mainly due to, as told by the oustees, chalka lands and paucity of irrigation source. The details of crop-wise yields are presented in “Brief Sketch Sheet” attached to this. The maximum paddy yield in this new settlement reported to be 3500 kg / Ac. The agricultural extension officials, as reported, visit this new settlement once in about two months.

Ousteas rural artisans and landless are not given any financial assistance from project site.

Expectation from project as prescience by oustees

- Extending lift irrigation facility from Singur dam
- Drinking water facilities to be reestablished by repairing water supply system
- Repair of village and inner road network (in line and by-lane of habitation) which is muddy now
- De-silting of drainage network
- Reestablishing of bus connectivity.



rief Sketch of Busireddypally village		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
Village Condition		
· Drainage	Yes-deep	Laid new pacca drainage system, silted
· Electricity	No	Yes
· Road	Katcha & Shabby	Laid metal road lanes & by lanes
· Community Hall	Yes (bigger one)	Very small constructed by Panchayat
· Medical facilities	No	Sub-centre planned – now depended on Sadasivpet mandal flows
· Veterinary services	No	Mobile-once in 3 months
· Bus services	During winter and summer season only	Initial started now discontinued
Agricultural Scenario		
· Lands conditions	Fertile	Chalk and Rough surface
· Source of irrigation	2 big tanks-irrigated 200 acres	Two small tanks irrigates about 50 acres + borewells (few) be good yield
· Crop Yield levels / Acre		
• Paddy	20 to 25 Qtls	10 to 15 Qtls exception 3500 kg / Ac
• Greengram	3 to 5 Qtls	1 to 2 Qtls
• Blackgram	5 to 6 Qtls	2 to 3 Qtls
• Redgram	3 to 4 Qtls	2 to 3 Qtls
• Sugarcane	-	30 to 40 tonnes
• Cotton	-	8 to 10 Qtls
• Jower	4 to 5 Qtls	2 to 3 Qtls
• Chilies	7-8 Qtls	Not feasible
• Wheat	5 to 6 Qtls	Not feasible
· Livestock Population		
• Cattle	4 – 5 /HH	1 -2 / HH (Very few have milk cattle)
• Buffaloes	1 – 3 (about 50% HH)	1 -2 very few (7-8 HH)
• Sheep	20 units	1 – 2 units
• Goat	1-5 about 25 HH	1-3 very few HH LS
• Poultry		
· Culture Homogeneity	Good	Good
· Settlement pattern		
• Castewise	Mixed as well as caste-wise	Ward wise



rief Sketch of Busireddypally village		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
• Religion	Religion-wise settlement	Religion-wise settlement
• Economic conditions		
• Percapita income	₹. 6000 / Ac (old rate 20 years back)	Now – 12000 – 14000 /Ac
• Indebtness	Very less (Money lender)	Majority have crop loans
• Sufficiency in Food grains (Home consumption)	Very happy	Difficult
• Housing condition	More plinth area pacca, mixed, pacca	Tilled rood – far all



**GLIMPSES
OF
FOCUS GROUP DISCUSSIONS**

Group IV

Name of the Dist : **Medak**
 Name of the Mandal : **Munipalle**
 Name of the Village (Submerge) : **Malikarjunapally**
 Name of the Resettlement Village : **Malikarjunapally**
 Date of Visit : **08.10.2010**

Name of oustees (Participated in Focus Group Discussion – FGD) and their Landholdings
 – Submerged and present holdings

MALLIKARJUNA PALLY VILLAGE OF MUNIPALLY MANDAL				
Sl. No	Name of the participatory	Name of the Father	Landholding in Acres	
			Before	After
1	Edigavittal	S/o Thukkaiah	4	4.5
2	Ch. Balaiah	S/o Papaiah	4	4
3	Dediga Bakkaiah	S/o Rajaiah	3	3
4	Ch. Balaiah	S/o Bagaiah	3	3
5	Shak Hameer	S/o Vazeer	2	2
6	Myathri Chandraiah	S/o Balaiah	3	5
7	Pichakuntala Venkaiah	S/o Pentaiah	2	0
8	Bandari Anjaiah	S/o Nagaiah	3	4
9	Ediga Sattemma	W/o Chanadraiah	11	2
10	Thalari Villtan	S/o Balaiah	3	1.75
11	Myathri Balaiah	S/o Hanumaiah	2.5	2.5
12	Myathri Syamma	W/o Balaiah	2.5	2.5
13	Munge Babaiah	S/o Narsaiah	6	6
14	Kotagiri Raj	S/o Kista Goud	7	5
15	Ch. Durgaiah	S/o Nagaiah	4	4
16	Kotagiri Sugunamma	W/o Lingagoud	3	0
17	Sangolla Mallaiah	S/o Laxmaiah	3	1.75
18	Abdulla Moinuddin	S/o Hammad Ali	6	3
19	Mahab Sab	S/o Marpally	3	2
20	Myathari Anjaiah	S/o Papaiah	8	4
21	Boini Mogulaiah	S/o Nagaiah	4.85	4
22	Thalari Balaiah	S/o Laxmaiah	4	3
23	Pichakuntala Durgaiah	S/o Pentaiah	2.5	0



MALLIKARJUNA PALLY VILLAGE OF MUNIPALLY MANDAL				
Sl. No	Name of the participatory	Name of the Father	Landholding in Acres	
			Before	After
24	Bandari Balaraj	S/o Babaiah	3	2
25	Kondapura Durgaiah	S/o Pentaiah	4.5	3
26	Chirna Nagappa	S/o Narsimulu	20	10
27	Chakali Mallaiah	S/o Pentaiah	2.25	2.25
28	Talelma Ramaiah	S/o Papaiah	2	3
29	Byagari Mallaiah	S/o Papaiah	1	4
30	Myathari Babaiah	S/o Danaiah	2	1
31	Nandikandi Advamma	W/o Papaiah	10.5	7
32	G. Venkatesham	S/o Anthaiah	4	3
33	Bandari Sangaiah	S/o Advaiak	3	3

Process of Resettlement and Rehabilitation:

Malikarjuna village was having both low lying area as well uplands. The low lying area was brought under the project which got submerged with the impounding of dam water. As reported, about 800 acres of agricultural land as well as habitation (residential area) got submerged due to project. The present habitation where the oustees have been rehabilitated is an undulated land patch (upland) of the same village (Malikarjuna). From FGD, it is revealed that oustees had their land holdings in low lying area (submerged one) as well as majority of them in the uplands (present one) also.

The oustees of submerged area were rehabilitated in the present upland area, where the project authorities had earmarked (with detailed plan) the area for residential purposes. All the oustees families were allotted housing plots their choice. From project side pacca drainage line network was laid and domestic and street light connectivity was provided. Drinking water facilities were also extended.

The rehabilitated colony which comes up in the area, as observed, is having different wards. These wards are based on religion, caste and occupation. In the opinion of oustees, the present residential setup is far better than the earlier one (submerged) Where the settlement was haphazard in nature.

The oustee's compensation at the time of evacuation was based on ` . 4000/Ac and ` .15000/- per household towards house construction, which they received in installments. It was told that majority of the oustees, compensation has been settled. There are few cases whose compensation yet to be settled. These cases, as informed, are held up due to legal complexities.

The FGD also revealed that, there are very few oustees, who have purchased agricultural land in the area, otherwise as stated earlier, majority of them owned agricultural lands in the upland area of the village.



The oustees shifted to the uplands (new residential area) when dam water started entering in to their old settlement and residential area. They had made their own arrangements for shifting.

Infrastructure created in New Rehabilitated Area:

As stated earlier, a good network of metal roads were laid which covers village main road as well as lane bylane in the residential area. Besides, the village has networking of pacca drainage lines. However, these drainage lines are observed to be very shallow. The new settlement has been equipped with power connectivity (domestic and street light) and drinking water supply. The habitation has bus connectivity. The new settlement has high school.

FGD also revealed about the lack of community hall, medical and health facility at the village level. To avail medical facility, people have to go to the Mandal headquarters.

With regard to veterinary services, it is observed that initially this facility was available at village level which was withdrawn later on.

Through FGD, it is learnt that the compensation received by oustees, was spent on marriages, religious and other function, recreation etc, by majority. However, some amount of it was used for house construction also.

Agricultural lands (Fields): The agricultural field in upland area is having salinity. The good numbers of fields, as reported are having Chalka lands (Sandy loam) as well as clay soils. According to farming community, earlier (old settlement) they were having fertile lands and the present lands are unfertile ones.

Irrigation sources: There are no water tanks in the new settlement area. The major source of irrigation is borewell. About 60-70 oustees are having borewells in their fields. The rest of agricultural fields are rainfed only.

Crops and Crop Yields: The crops raised in the new settlement, as reported, are greengram, redgram, blackgram, sugarcane, cotton, jowar and paddy. During discussion it was informed that due to poor land conduction in the new settlement, crop yields have come down as compared to submerged land. The crops grown and their yields, as reported, are presented in the “Brief Sketch” which is attached to it.

The FGD also revealed that oustees were not given any training either from project side or departmental side. Further, it is noted that rural artisans and landless did not receive any financial help from the project.

Ousteers expectation from project

- Early settlement of compensation for those whose cases are pending
- Medical health facility at village level



- Veterinary services at village level
- Quantity of chemical fertilizers be made available as required
- Drinking water supply connectivity in the SC ward

Brief Sketch of Mallikarjunapally		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
Village Condition		
• Drainage	Katcha drains	Pacca drainage lines laid – shallow-sited
• Electricity	Yes	Yes
• Road	Katcha & Muddy roads	Pacca Metal roads network
• Community Hall	Yes	No separate hall, panchayat building is being used
• Medical facilities	No, only weekly ANM visit	No only weekly ANM visit
• Veterinary services	No	Discontinued
• Bus services	Yes	Yes
Agricultural Scenario		
• Lands conditions	Fertile	Sandyloom, claly
• Source of irrigation	Tank	Borewells (60-70 in number), rainfed
• Crop Yield levels		
• Paddy	25 to 30 Qtls	20 to 25 qtls (those have irrigation facilities)
• Greengram	4 to 5 Qtls	2 to 3 Qtls
• Blackgram	6 to 7 Qtls	3 to 4 Qtls
• Maize	-	5 Qtls
• Redgram	4 to 5 Qtls	2 to 3 qtls
• Sugarcane	50 tons	30 tons
• Cotton	12 to 14 qtls	8 to 10 qtls
• Jower	7 to 8 qtls	4 to 5 qtls
• Livestock Population		
• Cattle	3 – 5 (majority HH)	2 – 3 only 25% HH
• Buffaloes	1 – 3 (50% HH)	1 – 2 (25% HH)
• Sheep	10 – 15 units	8 – 10 units
• Goat	1 – 5 majority	1 – 5 (Few only)
• Culture Homogeneity	Homogeneity	Homogenti
• Settlement pattern		
• Castewise	Yes	Yes
• Religion	Yes	Yes
• Economic conditions		
• Income / Ac		
• Indebtness	Up 10,000/Ac	7 10 7 thousand / Ac



Brief Sketch of Mallikarjunapally		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
Sufficiency in Food grains (Home consumption)	Surplus grain	No sufficient
Housing condition	Pacca building, mixed more planned done	Titled roof – planned done)



Appendix-A.5

**GLIMPSES
OF
FOCUS GROUP DISCUSSIONS**

Group V

Name of the Dist : **Medak**
 Name of the Mandal : **Munipalle**
 Name of the Village (Submerge) : **Allapur**
 Name of the Rehabilitated Village : **Allapur**
 Date of Visit : **08.10.2010**

Name of oustees (Participated in Focus Group Discussion – FGD) and their Landholdings
 – Submerged and present holdings

ALLAPUR VILLAGE MUNIPALLY MANDAL				
Sl. No	Name of the participatory	Name of the Father	Landholding in Acres	
			Before	After
1	Byagari Mogulaiah	S/o Sivaiah	4.5	4
2	Isam Uddin	S/o Rajak	3	1.5
3	Kolukuri Anjaiah	S/o Manaiah	15	12
4	Sharif	S/o Babumiya	4	4
5	Kashaiah	S/o Advaiah	4	3
6	Chakali Mogulaiah	S/o Bagaiah	1.5	1.5
7	Kasha Dasharath	S/o Pakkiraiah	5.5	3.75
8	Balagoni Mogulaiah	S/o Mallaiah	12	6
9	Boini Mogulaiah	S/o Papaiah	3.5	2
10	Gadda Sangaiah	S/o Mallaiah	4	4
11	Yusafali	S/o Imam Sab	1.5	1.5
12	Nagolla Siddu	S/o Laxmaiah	5	4
13	Gadila Yadaiah	S/o Sangaiah	5	5
14	Harijana Ambaiah	S/o Radaiah	3	2.5
15	Gadila Veeraiah	S/o Mogulaiah	3	3
16	Chakali Gundaiah	S/o Agamaiah	6	6

Process of Resettlement and Rehabilitation:

The Allapur village (new settlement and rehabilitated area) is a part of old Allapur (Submerged-low lying area). The habitants of old village area were rehabilitated in the upland area of Allapur village. The project authorities identified an area in the uplands as the village for rehabilitation of the oustees. Two sizes of layout residential plots (a) x 13 x 10 mt and (b) 11 x 10 mt were prepared for rehabilitating the oustees. The 'a' sizes



plots are on the main road of the village and 'b' size plots are marked on the inner side of the rehabilitated area village. The plots were allotted to the oustees by their choice. ₹.16000/- was paid in two installments to each of the households for the construction of house at the allotted plots. The FGD revealed that the paid amount was not sufficient for the construction of house. The oustees incurred a lot a extra amount for the purpose as reported. They (land holders) had met this expenditure from the land compensation, which was paid to them @ ₹.4000/- per acre. In case of landless, it was told that they were forced to borrow from others to meet the extra expenditure for construction of the new dwellings. As such they were trapped in indebtedness.

Further it is noted that the oustees paid heavy amount (₹. 10,000 to 15,000 per Acre) for purchase of agriculture lands in the new settlement area. As a result of this, their land holding size is reduced against.

The FGD also revealed that they shifted the old settlement when dam water started entering in the village. They had made their own arrangements for shifting to new rehabilitated area. With regard to settlement of land compensation, as reported, about 90 per cent of cases have been fully settled and remaining cases are still pending due to legal complexities.

Infrastructure Created In Rehabilitated Area.

The project authorities laid a network of new metal road in the new rehabilitated area with pacca drainage lines. The drain lines as reported and observed, are very shallow and got silted in due course of time.

In the new rehabilitated area primary school building was constructed. This new school building in due course of time developed leakages and it is reported that it has become difficult to conduct class room sessions in rainy season.

Further, it is observed that the rehabilitated layout area is planned one having access to roads network (main, lane and bylane). Avenue plantation was carried out by oustees. The seedlings were provided by the Forest Department. 50 per cent survival of plantation is observed in the area. Electric power connections have been provided both for domestic as well as street lighting. Drinking water facilities is found to be functions satisfactorily.

For extending medical and health and veterinary service facilities, though two separate buildings have been constructed, these are found to be lying idle, without any service. Further it is noted that the concern ANM visits the village as scheduled. For medical and veterinary services, the habitants depend on mandal hqts services in this regard. Malaria, typhoid, arthritis and chicken guinea are the common diseases are reported from this area.

The bus connectivity, as reported, was initially introduced for this area which was disconnected later on.

Agriculture:



Land fertility: The land fertility in resettlement area, as reported, is very poor as compared to submerged lands. The present one is sandy loomy lands (Chalka), contains lot of clay and dry lands in nature.

Source of Irrigation: In the submerged area there were 3 water tanks, which were the main source of irrigation. The new settlement, lacks tank irrigation. About 10 oustees are having 10 bore wells which irrigate 30 to 40 acres of land, otherwise seasonal rains are the only source for agriculture activities.

Crop yields: The crop yields, as reported, have come down to the largest extent as compared to earlier ones (submerged). This is because of poor land fertility, land textures and lack of irrigation sources. The comparative crop yield levels (before and after the project) are depicted in 'brief sketch' sheet.

Further it is noted that landless and rural artisan oustees are not given any financial assistance as well as skill trainings for improving their livelihood.

Ousteers exceptions

- Creation of irrigation facilities
- Help in improving land fertility
- New avenues for self employment for livelihood support
- Starting medical and veterinary services in the existing constructed buildings
- Re-establishing the bus services
- Extension guidance for improving crop yields
- Repairs to school building to check leakages

Brief Sketch of Allapur village		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
Village Condition		
• Drainage	Katcha	Laid pacca – shallow – silted
• Electricity	Yes	Yes
• Road	Katcha, muddy	Pacca – lane by lane network
• Community Hall	Independent	Panchayat Hall being used
• Medical facilities	ANM visit	Building constructed, lying ideal ANM visit
• Veterinary services	No	Building constructed lying ideal No service
• Bus services	Yes	Initially – yes, later on discontinued
Agricultural Scenario		
• Lands conditions	Fertile, less use of chemical fertilizers	Mostly Chalka, - Non fertile
• Source of irrigation	Tanks	Borewell (10) rainfed, no tanks



Brief Sketch of Allapur village		
Particulars	Before Project (old Settlement)	After Project (New Settlement)
- Crop Yield levels A/c		
• Paddy	14 Q / less area	7 Q / less area
• Greengram	4 Q	2 to 2.5 Q
• Blackgram	7 Q	5 Q
• Redgram	6 - 5 Qtls	3 to 4 Q
• Sugarcane	50 to 60 tons	25 – 30 tons
• Cotton	-	10 Qtls
• Jowar	5 Qtls	45 Qtls
- Livestock Population		
• Cattle	2 – 4 cattle / HH	Majority soldout – who so ever has - 2 - 3
• Buffaloes	1 to 2 / HH	1 – 2 very few
• Sheep	About 20 families	2 – 3 families, majority sold out
• Goat	Very few	Very few
- Culture Homogenity	Homogenity	Homogeneity
- Settlement pattern		
• Castewise	Mixed	Mostly ward – wise
• Religion	Religious wise	Religion wise
- Economic conditions		
• income	` . 5000 / Ac	` . 3000 / Ac
• Indebtness	Very few (Moneylender)	Majority crop 2 animal loan under scheme
• Sufficiency in Food grains (Home consumption)	Surplus	Not Surplus
• Housing condition	Mostly huts, semi pacca, few banglows	Newly constructed tiled roof houses with planned layout



Appendix-B

SINGUR PROJECT**LAND ACQUISITION:-**

NO OF STRUCTURES WHERE LANDS AND : 32Nos
STRUCTURES ARE AFFECTED

NO. OF VILLAGE WHERE ONLY LANDS :
ARE AFFECTED 40Nos

LAND

TOTAL EXTENT OF LAND	Ac	ha
PATTA LAND (SUBMERGENCE)	Rs. 34,772-39	= 14072.0
PATTA LAND (ROADS QUARRIES ETC)	Rs. 342-01	= 138.41 ha
GOVERNMENT ASSIGNED AND LAND		
UNDER CELLING (SUBMERGENCE)	Rs. 3,855-00	= 1560.0 ha
River course and water bodies	2024.00	= 819.0
village land	220.00	= 89.0
TOTAL	RS. 38,970-00	41213.4 = 16678.4

LAND ALREADY ACQUIRED

PATTA LAND (SUBMERGENCE)	Rs. 34,772-39	→ 14072.0
PATTA LAND (ROADS QUARRIES ETC)	Rs. 342-01	→ 138.41
GOVERNMENT ASSIGNED AND LAND		
UNDER CELLING (SUBMERGENCE)	Rs. 3,855-00	→ 1560.0
River course	819	
village land	89	
TOTAL	Rs. Ac	38,970.00 → 15770.62

STRUCTURES

NO. OF STRUCTURES AFFECTED	7,672-00
NO. OF STRUCTURES ALREADY ACQUIRED	6,717 Nos 7103
BALANCE STRUCTURES TO BE ACQUIRED	955 Nos. 559

Chalki (v) - 492 Nos) Itkepally (v) 120 Nos) left over structures
Peddareddypet 71. Nos Rs. 1.57 Crores + Khadirabad 251 Nos Amount Rs.
3.03 Crores + Takkedpally 21 Nos. Rs. 0.52 Crores.

