

**Field Inspection Notes of the Sri. G. Mukund Reddy, Dy.C.F., Forest Divisional Officer, Kothagudem pertains to the inspection of 369.0922 Ha of Reserve Forest area passing through 3 Ranges of Kothagudem division proposed for diversion for the construction of canals, pressure main, laying of power lines etc., involved in Sitarama Lift Irrigation Project (SRLIP) in favor of Chief Engineer, Projects, I & CADD, Khammam**

- I have inspected the forest lands proposed for diversion for Sita Ram LIP along with the concerned FRO and staff on **18.09.2017, 25.09.2017, 03.11.2017 & 04.11.2017.**
- In the proposals submitted by the User Agency, an area of **418.3775 ha** forest area has been proposed for diversion in Kothagudem Division. After thorough field verification and joint inspection of revenue and forest departments, an area of **49.2833 ha** (2 Patches & 1 Patch partly) in Julurupadu Range are found falling outside the Reserve forest and they are Patta lands. Hence, the notified forest area proposed for diversion is **369.0922 ha.**

**The details are as follows:**

- The Sita Rama Lift Irrigation Main Canal enters **Kothagudem Division** in Penagadapa RF in Marrigudem Beat of of Ramavaram Range i.e, at km 66.650 of SRLIP alignment and exit the Marrigudem Beat at km 67.255.
- From km 67.255 to km 79.700, the Main Canal runs in Patta Lands.
- The Main Canal re-enters the forest land in Kanakagiri RF in Maddukuru Beat of Chandrugonda Range at km 79.700 and exit in Bendalapadu (E) Beat of same Range at km 82.950.
- From km 82.950 to km 84.600, the Main Canal runs in Patta Lands.
- The Main Canal again re enters the forest land in Kanakagiri RF in Ravikampadu Beat of Chandrugonda Range at km 84.600 and exit in Pokalagudem Beat of same Range at km 88.500.
- From km 88.500 to km 91.420, the Main Canal runs in Patta Lands.
- The Main Canal again re enters the forest land in Kanakagiri RF in N.B.Bodu Beat in Julurupadu Range at km 91.420 and exit at km 92.325 and re enters into the same Beat at km 92.890 and exit at km 93.200 in the N.B.Bodu Beat
- A distributor canal for a length of 0.468 KMs runs in Julurupadu RF in Rajupalem Beat of of Julurupadu Range.
- From km 92.325 to km 92.890 and From km 93.200 to km 93.635 the Main Canal runs in Patta Lands.
- The Main Canal again re enters the forest land in Kanakagiri RF in Gundepudi Beat of Julurupadu Range at km 93.635 and exit the Beat at km 95.625.
- From km 95.625 to km 106.900, the Main Canal runs in Patta Lands.
- The Main Canal again re-enters the forest land in Papkole-B Beat of Cheemalapadu RF of Julurupadu Range at km 106.900 and exit the Papkole-B Beat at km 110.300 and enters into Khammam Division.
- Total length of canal passing through Forest area of Kothagudem Division is **20.595 km.**
- **The details of forest areas falling in Kothagudem Division are as follows.**

Section	Beat	Block	Compt, No.	Area_Ha	Landuse/ Landcover (in ha)			
					Plantn	RoFR	Encr	Forest
Abbugudem	Marrigudem	Penagadapa	38	18.8207	4.9000	5.0992	3.4400	5.3815
Annapureddypalli	Annapureddpally	Annapureddypalli	128	14.6588	0.0000	0.0000	6.0000	8.6588

Annapureddypalli	Annapureddpally	Annapureddypalli	129	11.0388	8.0000	0.0000	0.0000	3.0388
Annapureddypalli	Pentalam	Annapureddypalli	131	4.21	0.0000	0.0000	0.0000	4.2100
Annapureddypalli	Pentalam	Annapureddypalli	132	30.1742	0.0000	0.0000	10.0000	20.1742
Maddukuru	Maddukuru	Kanakagiri	95	5.3648	0.0000	0.0000	0.0000	5.3648
Maddukuru	Maddukuru	Kanakagiri	126	15.0006	0.0000	0.0000	7.0000	8.0006
Maddukuru	Bendalapadu	Kanakagiri	94	21.2789	0.0000	0.0000	20.0000	1.2789
Ravikampadu	Ravikampadu	Kanakagiri	92	20.7974	15.0000	0.0000	2.0000	3.7974
Ravikampadu	Pokalagudem	Kanakagiri	91	13.3327	0.0000	0.0000	3.0000	10.3327
Ravikampadu	Pokalagudem	Kanakagiri	90	30.4316	7.0000	1.8252	1.0000	20.6064
Gundepudi	N.B.Bodu	Kanakagiri	89	10.1633	0.0000	0.0000	10.1600	0.0033
Gundepudi	N.B.Bodu	Kanakagiri	86	3.7815	0.0000	0.0000	3.7800	0.0015
Gundepudi	Gundepudi	Kanakagiri	88	16.8811	9.1000	0.0000	6.0000	1.7811
Gundepudi	Gundepudi	Kanakagiri	87	5.4196	1.0000	0.0000	0.0000	4.4196
Papkole	Papakole-B	Cheemalapadu	32	61.4781	0.0000	45.4229	10.0000	6.0552
Papkole	Papakole-B	Cheemalapadu	31	82.9431	10.0000	0.0000	10.0000	62.9431
Gundepudi	Rajupalem	Julurupadu	85	3.317	0.0000	0.0000	2.0000	1.3170
			<b>Total::</b>	<b>369.0922</b>	<b>55.0000</b>	<b>52.3472</b>	<b>94.3800</b>	<b>167.3650</b>

- 55 ha is covered under plantations raised by forest department under JFM, APCFM, 13<sup>TH</sup> FDA, CAMPA (NFM) in 1998-99, 2000-01, 2006-07, 2008-09, 2015-16, 2016-17 & 2017-18.
- For the loss of 55 Ha of plantation raised by forest department, the UA has to pay cost of Raising and Maintenance of NTSH plantation in **55.00 ha** of degraded forest land.
- Purpose-wise break up of forest land is detailed below:

S. No.	Component	Area in Ha.
1	Gravity Canals and CM/CD works	354.9956
2	Power line 1 of 220 KV line.	10.7796
3	Distributory	3.317
	<b>Total:</b>	<b>369.0922</b>

#### RoRF Claims:

- For 52.347 ha (129.35 acre) RoFR rights (92 claims) have been conferred. For the RoFR right holders the UA has to make payment as per the R&R plan prepared by District Collector, Bhadradi-Kothagudem as per prevalent R&R Policy of the Government.
- The details of RoFR Title holder's falling in Kothagudem Division falling within the alignment of the canal are as follows:

Sl. No.	Claimant Name	Claim number	Area in acre	Status
1	Tati Venkatamma, D/o. Lakshmaiah, R/o. Buchannagudem	222516006030008	0.51	Accepted
2	Kuram Mahalaxmi, D/o. Venkatesh, R/o. Buchannagudem	222516006030056	0.77	"
3	Tati Suryam, S/o. Seetharamulu, R/o. Buchannagudem	222516006030051	0.46	"
4	Soyam Rajulu, S/o. Mutyalu, R/o. Buchannagudem	222516006030074	0.02	"
5	Tati Raghavamma, D/o. Venkappa, R/o. Buchannagudem	222516006030034	1.25	"
6	Tati Muthyalu, D/o. Mallappa, R/o. Buchannagudem	222516006030060	0.79	"
7	Kuram Rangaiah, S/o. Muthaiah, R/o. Buchannagudem	222516006030006	0.49	"
8	Mechu Muthyalu, S/o. Buchamma, R/o. Buchannagudem	222516006030030	1.25	"
9	Kunja Sekhar rao, S/o. Pottappa, R/o. Buchannagudem	222516006030039	0.56	"
10	Mechu Edappa, S/o. Buchanna,	222516006030057	0.55	"

	R/o. Buchannagudem			
11	Mechu Nagesh, S/o. Buchanna, R/o. Buchannagudem	222516006030049	0.63	"
12	Tati Venkateswarlu, S/o. Padanna, R/o. Buchannagudem	222516006030040	0.17	"
13	Tati Nagulu, S/o. Chinna Buchanna, R/o. Buchannagudem	222516006030065	0.68	"
14	Savalam Venkateswarlu, S/o. Ramulu, R/o. Buchannagudem	222516006030034	0.57	"
15	Tati Veera Raghavulu, S/o. Pedda Hanumanthu, R/o. Buchannagudem	222516006030033	0.46	"
		<b>S.Total::</b>	<b>9.16</b>	
16	Lavudya Sharma, S/o. Buchi, R/o. Papakollu	222401001080060	6.01	Accepted
17	Guguloth Ramdas, S/o. Somla R/o. Papakollu	222401001080102	0.81	"
18	Maloth Rathya, S/o.Thavurya R/o. Papakollu	222401001080123	1.71	"
19	Maloth Somla, S/o. Thavurya R/o. Papakollu	222401001080082	2.59	"
20	Maloth Ganya, S/o. Thavurya R/o. Papakollu	222401001080100	3.20	"
21	Maloth Tavurya, S/o. Balya R/o. Papakollu	222401001080104	2.05	"
22	Daramsoth Bheemudu, S/o. Laxman R/o. Papakollu	222401001080101	1.14	"
23	Daravath Devsingh, S/o. Sivaram R/o. Papakollu	222401001080071	3.06	"
24	Layudya Narasimha Rao, S/o. Vangya R/o. Papakollu	222401001080105	2.63	"
25	Daravath Srinu, S/o. Lalu R/o. Papakollu	222401001030047	2.28	"
26	Daravath Bhadri, W/o. Srinu R/o. Papakollu	222401001080106	1.75	"
27	Daravath Veeranna, S/o. Harisingh R/o. Papakollu	222401001080097	5.03	"
28	Lavudya Sevya, S/o.S/o. Buchaiah R/o. Papakollu	222401001080120	2.32	"
29	Lavudya Bujji, W/o Sharma R/o. Papakollu	222401001080059	1.02	"
30	Maloth Bhadri, W/o. Somla R/o. Papakollu	222401001080135	2.09	"
31	Bhukya Balu, S/o. Lalsingh R/o. Papakollu	222401001080086	2.22	"
32	Dharavth Atchamma, W/o. Srinu R/o. Papakollu	222401001080029	2.21	"
33	Lavudya Jeeja, W/o. Bhachu R/o. Papakollu	222401001080044	0.10	"
34	Lavudya Babulal, S/o. Buchu, R/o. Papakollu	222401001080091	0.46	"
35	Jatoth Hatya, S/o.S/o. Mancha R/o. Papakollu	222401001080043	1.68	"
36	Jatoth Kousalya, W/o.Balu R/o. Papakollu	222401001080055	3.02	"
37	Vattam Muthi Raju, S/o. Veeraswami R/o. Papakollu	222401001030237	0.04	"
38	Vattam Nageswara Rao, S/o. Mangaiah R/o. Papakollu	222401001030231	0.07	"
39	Vattam Veeraswamy, S/o. Narsaiah R/o. Papakollu	222401001030230	0.24	"
40	Battu Sambaiah, S/o. Narsaiah R/o. Papakollu	222401001030219	0.77	"
41	Borra Savithri, W/o. Nageswara Rao R/o. Papakollu	222401001030220	0.18	"
42	Borra Narasimha Rao, S/o. Venkaiah R/o. Papakollu	222401001030202	1.02	"
43	Esam Satyam, S/o. Raghupathi R/o. Papakollu	222401001030216	1.62	"
44	Daravath Bhadri, W/o. Harisingh R/o. Papakollu	222401001080042	0.88	"
45	Varsa Gopaiah, S/o. Pothaiah R/o. Papakollu	222401001030208	0.87	"
46	Gaddam Kotaiah, S/o. Buchaiah R/o. Papakollu	222401001030205	0.92	"
47	Koram Krishnaiah, S/o. Ramaiah R/o. Papakollu	222401001030223	1.83	"
48	Daravath Gangamma, W/o.Rambabu R/o. Papakollu	222401001080118	1.45	"
49	Bugga Nagaiah, S/o. Yerraiah R/o. Papakollu	222401001030235	2.57	"

50	Vattam Nirmala, W/o. Laxmaiah R/o. Papakollu	222401001030233	1.11	"
51	Banoth Veeranna, S/o. Bitchu R/o. Papakollu	222401001080087	5.61	"
52	Daravath Samya, S/o. Veeraiah R/o. Papakollu	222401001080057	1.48	"
53	Daravath Narsinga, S/o. Nanda R/o. Papakollu	222401001080111	2.92	"
54	Bugga Papaiah, S/o. Bikshamaiah R/o. Papakollu	222401001030232	1.88	"
55	Bhukya Rakma, W/o. Eerya R/o. Papakollu	222401001080063	2.01	"
56	Punem Atchaiah, S/o. Ramaiah R/o. Papakollu	222401001030215	1.86	"
57	Borra Swamy, S/o. Sammaiah, R/o. Papkollu	222401001030225	2.09	"
58	Dharavath Chinna Keema, S/o. Kotiya R/o. Papakollu	222401001080076	0.48	"
59	Punem Ramaiah, S/o. Butchiramulu R/o. Papakollu	222401001030043	2.20	"
60	Bhukya Atchamma, W/o. Ramulu R/o. Papakollu	222401001080056	2.01	"
61	Tati Ramulu, S/o. Narsaiah R/o. Papakollu	222401001030049	1.69	"
62	Yetti Jogaiah, S/o. Ramaiah R/o. Papakollu	222401001030234	4.64	"
63	Jabba Narayana, S/o. Somaiah R/o. Papakollu	222401001030236	4.71	"
64	Payam Narsaiah, S/o. Venkaiah R/o. Papakollu	222401001030241	3.61	"
65	Jabba Laxmi, W/o. Nageswara Rao, R/o. Papakollu	222401001030226	0.33	"
66	Jabba Venkateswarlu, S/o. Subbaiah R/o. Papakollu	222401009930226	1.11	"
67	Jabba Subbaiah, S/o. Papaiah R/o. Papakollu	222401001030224	0.89	"
68	Borra Nangaiah, S/o. Sammaiah R/o. Papakollu	222401001210061	0.32	"
69	Borra Subbaiah, S/o. Sammaiah R/o. Papakollu	222401001030207	0.62	"
70	Bandla Laxmaiah, S/o. Sammaiah R/o. Papakollu	222401001030288	0.97	"
71	Vattam Krishnaiah, S/o. Pullaiah R/o. Papakollu	222401001030242	0.26	"
72	Mudigonda Jogaiah, S/o. Poshaiiah R/o. Papakollu	222401001030239	0.24	"
73	Daravath Latchiram, S/o. Harisingh R/o. Papakollu	222401001080062	0.28	"
74	Daravath Kanthi, S/o. Bheema R/o. Papakollu	222401001080068	1.80	"
75	Dharamsoth Suvali, W/o. Sakru, R/o. Papakollu	222401001020174	1.88	"
76	Dharamsoth Bheemudu, S/o. Somla R/o. Papakollu	222401001080069	1.60	"
77	Dharavath Chinni, W/o. Kotiti R/o. Papakollu	222401001080039	3.55	"
		<b>S.Total:</b>	<b>111.99</b>	
78	Maloth Laxman S/o. Hatiya R/o. Venkatiyathanda	222512016060044	2.31	
79	Bhukya Ramulu S/o. Bitcha R/o. Venkatiyathanda	222512016060030	0.35	
80	Banoth Soni S/o. Hariya R/o. Venkatiyathanda	222512016060019	1.15	
81	Islavath Ravi S/o. Bishya, R/o. Venkatiyathanda	222512016060006	0.70	
		<b>S.Total:</b>	<b>4.51</b>	
82	Madivi Surapa S/o. Rajulu R/o. Buchannagudem	222516005415003	0.11	
83	Savalam Bodappa S/o. Marappa R/o. Buchannagudem	222516005415004	0.44	

84	Soyam Veeraswamy S/o.Muthyalu R/o.Buchannagudem	222516005415002	0.23	
85	Thati Veerabhadram S/o.Hanumanthu R/o.Buchannagudem	222516005415007	0.43	
86	Kaka Mallesh S/o.Ramaiah R/o.Buchannagudem	222516005415010	0.54	
87	Thati Chandram S/o.Hanumanthu R/o.Buchannagudem	222516005415001	0.20	
88	Meechu Ramulu S/o.Buchanna R/o.Buchannagudem	222516005415005	0.46	
89	Thati Deeraswamy S/o.Buchanna R/o.Buchannagudem	222516005415009	0.44	
90	Savalam Thirupati Rao S/o. Venkateswarlu R/o.Buchannagudem	222516005415006	0.28	
91	Thati Rama Rao S/o. Veeraswamy R/o.Buchannagudem	222516005415008	0.31	
		<b>S.Total:</b>	<b>3.44</b>	
92	Gugulothu Bujji S/o.Kotiya R/o.Papakollu	224010005415002	0.25	
		<b>S.Total:</b>	<b>0.25</b>	
		<b>GRAND TOTAL:</b>	<b>129.35</b>	

**Enumeration of tree growth:**

- The flora found in the proposed area are Bojja, Togara, Nallamaddi, Chiruman, Tuniki, Pala, Narayepi, Billudu, Teak, Bamboo etc.,
- There are 28804 trees (above 30 cm girth) standing in the proposed diversion area. The trees below 30 cm girth are 27052.
- The details of enumeration of trees, compartment-wise are as follows:

Beat	Compt.	Area_ha	Enumeration of trees			
			Teak (No's)	Teak (Vol in cum)	Non Teak (No's)	Non Teak (Vol in cum)
Marrigudem	38	18.8207	10	0.238	114	48.280
Maddukuru	95	5.3648	1	0	590	60.278
Maddukuru	126	15.0006	0	0	309	49.932
Bendalapadu (E)	94	21.2789	0	0	80	24.623
Ravikampadu	92	20.7974	12	0.972	5991	101.106
Pokalagudem	91	13.3327	14	0.12	6965	167.157
Pokalagudem	90	30.4316	13	0.291	4867	133.530
N.B. Bodu	89	10.1633	0	0	21	7.988
N.B. Bodu	86	3.7815	0	0	0	0
Gundepudi	88	16.8811	0	0	5127	253.636
Gundepudi	87	5.4196	0	0	1778	74.239
Papkole-B	32	61.4781	0	0	5186	0
Papkole-B	31	82.9431	0	0	17800	36.744
Rajupalem	85	3.317	0	0	142	4.259
Pentlam	131	4.2100	5	0	1090	102.090
A.R. Palli	129	11.0388	0	0	2164	204.473
	128	14.6588	0	0	2742	190.089
Pentlam	132	30.1742	0	0	835	69.360
<b>TOTAL::</b>		<b>369.0922</b>	<b>55</b>	<b>1.621</b>	<b>55801</b>	<b>1527.784</b>

The forests are Tropical Dry Deciduous Forests with 0.1 to 0.7 canopy density. The density break-up of **369.0922 Ha** is given below:

Density Class	Area in ha
0.4 to 0.7	13.9249
<0.4	355.1673
<b>Total</b>	<b>369.0922</b>

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Density Class	Area in ha
0.4 to 0.7	13.9249
<0.4	355.1673
<b>Total</b>	<b>369.0922</b>

- The fauna found in the proposed area are Melursus ursines (Sloth Bear), Hysterix indica (Porcupine), Lepus Nigricollis (Hare), Sus scropha (Wild Boar), Axis Axis (Spotted deer), Kondagorre, Sambar, Langurs, owlets and etc.
- No Work in violation of Forest (Conservation) Act, 1980 has been committed by User Agency.

**General:**

The proposed alignment of the canal is passing through the rich forests having good regeneration interspersed with RoFR title areas, Plantations and encroachments etc.,

- The Sita Rama Lift Irrigation Main Canal enters **Kothagudem Division** in Penagadapa RF in Marrigudem Beat of of Ramavaram Range i.e, at km 66.650 of SRLIP alignment and exit the Marrigudem Beat at km 67.255. From km 67.255 to km 79.700, the Main Canal runs in Patta Lands. The Main Canal re-enters the forest land in Kanakagiri RF in Maddukuru Beat of of Chandrugonda Range at km 79.700 and exit in Bendalapadu (E) Beat of same Range at km 82.950. From km 82.950 to km 84.600, the Main Canal runs in Patta Lands. The Main Canal again re enters the forest land in Kanakagiri RF in Ravikampadu Beat of Chandrugonda Range at km 84.600 and exit in Pokalagudem Beat of same Range at km 88.500. From km 88.500 to km 91.420, the Main Canal runs in Patta Lands. The Main Canal again re enters the forest land in Kanakagiri RF in N.B.Bodu Beat in Julurupadu Range at km 91.420 and exit at km 92.325 and re enters into the same Beat at km 92.890 and exit at km 93.200 in the N.B.Bodu Beat. A distributor canal for a length of 0.468 KMs runs in Julurupadu RF in Rajupalem Beat of of Julurupadu Range. From km 92.325 to km 92.890 and From km 93.200 to km 93.635 the Main Canal runs in Patta Lands. The Main Canal again re enters the forest land in Kanakagiri RF in Gundepudi Beat of Julurupadu Range at km 93.635 and exit the Beat at km 95.625. From km 95.625 to km 106.900, the Main Canal runs in Patta Lands. The Main Canal again re enters the forest land in Papkole-B Beat of Cheemalapadu RF of Julurupadu Range at km 106.900 and exit the Papkole-B Beat at km 110.300 and enters into Khammam Division.

Total length of canal passing through Forest area of Kothagudem Division is **20.595 km**.

- To avoid the fragmentation and loss of wildlife habitat, the UA has been requested to explore the possibility of excavation of tunnel. The UA has informed that excavation of tunnel is technically not feasible because of the topography and other technical reasons like maintenance of gravity levels etc. The Wildlife will be disturbed due to the fragmentation of the forest. Therefore, WL conservation plan is proposed.
- No rare / endangered / unique species of flora and fauna are found in the forest area proposed for diversion.

- There are no protected Archaeological / Heritage site / defense establishment or any other important monument in the forest area proposed for diversion.
- The said proposed area for diversion does not form part of National Park, Wildlife Sanctuary, Biosphere reserve, Tiger reserve, Elephant Corridor etc.

**Inspection of enumeration of trees in Ramavaram Range**



**Inspection of enumeration of trees in Julurupadu Range**



### Degraded Forest Land(DFL) for CA:

CA is proposed in an area of 175.00 Ha in degraded forest land in Kothagudem, Ramavaram and Chandrugonda Ranges to meet the requirement of planting @1000 plants/ ha of forest land proposed for diversion for SRLP.

Further, the plantations ( Eucalyptus, Bamboo, NTSH) raised under JFM, APCFM, 13<sup>TH</sup> FDA, CAMPA (NFM) Schemes in 1998-99, 2000-01, 2006-07, 2008-09, 2015-16, 2016-17 & 2017-18 in an area of 55 Ha (Ramavaram Range-4.90 Ha, Chandrugonda Range-30 Ha & Julurupadu Range-20.1 Ha) of Kothagudem Division is falling within the alignment. To compensate the above loss, the CA Scheme is proposed for raising plantation in 55.00 Ha of degraded forest area. Hence, the total area proposed for CA in DFL is 230 Ha with an financial outlay of Rs. 1423.60059 Lakhs. The CA scheme is enclosed.

The details of areas identified for DFL CA with < 0.4 density are as follows:

Sl. No.	Range	Compartment	Area in ha
1	Kothagudem	5	75
2	Ramavaram	32 & 33	50
3	Ramavaram	12	55
4	Chandrugonda	128	50
		<b>TOTAL:</b>	<b>230</b>

### CAT Plan:

For protection of Remnant Blocks Catchment Area Treatment (CAT) Plan is prepared for **Rs. 68.57909 Lakhs** to stabilize the sides of the hillocks may be un-stabilized due to cutting for the canals etc., of the Project, certain treatments are proposed and the details are furnished in the CAT Plan enclosed.

### Wildlife Conservation Plan:

Wild Life Conservation Plan with **Rs. 81.039 Lakhs** is proposed with the components of Desilting and deepening of tanks, Desilting and development of Water holes, construction of saucer pits, providing salt licks, setting up of one base camps and one strike force for (3) years for protection of wildlife. The scheme is enclosed.

### Canal Bank plantations:

The total length of the project passing through the Kothagudem Division is 20 km. A separate scheme has been prepared for the stabilization of the adjacent area along the canal with a financial outlay of **Rs.125.18623 Lakhs** and proposed for raising of canal bank plantations, two rows on either side of the canal. The scheme is enclosed.

### Recommendations:

The project is intended for providing irrigation water for an ayacut of 6,74,387 acres including stabilization of major, medium and other minor irrigation projects; PR tanks and drinking water to enroute villages; which uplifts the economy of the people of the region and also generates income. Though there is fragmentation of the forests due to implementation of the project, because of above reasons, the project is recommended subject to the following conditions.

- i. User Agency has to provide funds for CAT Plan to minimize the erosion on the hillock slopes through which the canal passes through and CAT plan is prepared duly proposing appropriate SMC works. Canal bank plantations, stabilization of the banks, stabilization of the hill slopes,
- ii. Proposed Cross Masonry & Cross Drainage (CM&CD) structures at 25 locations across the canal by the User Agency shall be of minimum 3 m in height and 4 m width for facilitating crossing of the animals.
- iii. User Agency will provide water from the canal at appropriate places as specified by the forest department, so that water can be used for forestry and wildlife purposes.
- iv. Funds to be provided for Engaging the protection watchers in base camps and strike force for three years and providing the water sources for the wild life etc., in wildlife conservation plan as well as for preventing the encroachment and to control the fire and to provide water to the wild life, as proposed by forest department.
- v. Canal bank plantations of two rows on the either side of the canal shall be taken up by the Forest Department at the cost of the User Agency.

  
**Forest Divisional Officer**  
**Kothagudem**