

**GOVERNMENT OF TELANGANA  
FOREST DEPARTMENT**

Rc.No.23/2016/D1  
Date: 24.11.2017

Office of the District Forest Officer  
Bhadradi Kothagudem District

From  
Sri Sivala Rambabu, IFS.,  
District Forest Officer,  
Bhadradi Kothagudem District,

To  
The Chief Conservator of Forests/  
Conservator of Forests.  
Kothagudem Circle, Kothagudem.

Sir,

**Sub:** TSFD – Forest (Conservation) Act, 1980 – Proposal for diversion of **1531.0548 ha (revised from 1602.2871 ha)** of forest land in five different forest divisions viz. Manuguru, Paloncha and Kothagudem divisions of Bhadradi-Kothagudem District and Sathupally and Khammam divisions of Khammam District for construction of canals, tunnels, laying of power lines etc. involved in **Sitarama Lift Irrigation Project** in favour of Chief Engineer, Projects, I&CADD, Khammam – **Forwarding the Proposals for further processing with remarks – Submitted** - Regd.

Ref: 1. Prl.CCF, T.S., Hyderabad, Rc.No. 9000/2017/FCA.1, Dt: 20.10.2017.  
2. FDO, Kothagudem, Rc.No. 1284/2017/A5, Dt: 24.11.2017.  
3. FDO, Yellandu, Rc.No. 65/2016/Y3, Dt: 22.11.2017  
4. FDO, Paloncha, Rc.No. 2317/2016/P5, 24.11.2017.  
5. FDO, Manuguru, Rc.No. 886/2017/M4, Dt: 24.11.2017.  
6. FDO, Bhadrachalam, Rc.No. 367/2013/B4, Dt: 24.11.2017.  
7. FDO, WLM Kinnerasani, Rc.No. 1025/2017/K3, Dt: 21.11.2017.

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Adverting to the subject and reference to the above, it is submitted that vide reference 1<sup>st</sup> cited the Prl. Chief Conservator of Forests (HoFF), T.S., Hyderabad has forwarded the proposals for processing pertains to diversion of Forest land to an extent of 1272.2349 Ha (total 1602.2871 ha), for Sita Rama Lift Irrigation Project (SRLIP) in favour of Chief Engineer, Irrigation Projects Circle, Khammam, falling in Kothagudem, Paloncha and Manuguru forest divisions of Bhadradi Kothagudem District for processing under Forest (Conservation) Act,1980. Rules. Guidelines and amendments issued therein.

Accordingly the proposals have been processed by respective Forest Divisional Officers and furnished vide ref 2<sup>nd</sup> to 7<sup>th</sup> with due recommendation in Part II along with the Site Inspection notes, CA schemes, schemes for raising canal bank plantations, WL conservation plan etc. along with all the necessary undertakings, documents etc. **The details are as follows:**

**I. The User Agency has furnished the following information in Part – I:**

- The Sita Rama Lift Irrigation Scheme is a reengineered project of Rajiv Dummugudem and Indira Sagar LIS Projects. It is contemplated to cover the Khammam, Bhadradi-Kothagudem and Mahabubabad Districts, with a command area of 3,28,853 Acres as new ayacut and Stabilization of existing ayacut about 3,45,534 Acres.
- Stabilization of existing ayacut under Major and Medium projects like NSP, Wyra, Lankasagar and Paleru is of about 2,48,376 Acres and other minor irrigation schemes and PR Tanks where there is no assured irrigation source for an area of about 97.158 Acres is envisaged.
- The Sita Rama Lift irrigation Project is proposed to draw water from Godavari River (R/S) U/S of existing Dummugudem Anicut to draw 70.4 TMC of water from River Godavari through an approach channel of CBL El.+45 m

- Sita Rama Lift Irrigation Project envisages construction of Head Regulator at Dummugudem Anicut and to draw water from Godavari through an approach channel right side of Godavari, It consists of gravity canal, four pump houses at (1) B.G.Kothuru, Aswapuram (M), (2) V.K.Ramavaram, H/O Pusugudem, Mulakalapally(M). (3)Kamalapuram. Mulakalapally(M), (4) Dibbagudem H/o Gandugulapally(V), Dammapeta(M), Lift systems. Tunnels and Distributory Networks.
- Total cost of the project is **Rs. 13263.860 Crores.**
- Total Project works are proposed to be divided into (9) Number of reaches for the purpose of work convenience.
- The total extent of Forest area required for diversion for the purpose of SRLIP is **1602.287 Ha (1272.2349 Ha. in Kothagudem Circle + 330.0521 Ha. in Khammam Circle) the Division wise areas as follows.**

Sl No	Name of the Circle	Name of the District Forest Officer	Name of the Forest Divisional Officer	Extent of Forest Area in ha
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
1	Kothagudem	Bhadradri Kothagudem	Kothagudem	418.3755
2			Paloncha	640.9060
3			Manuguru	212.9534
<b>Kothagudem Circle Total::</b>				<b>1272.2349</b>
4	Khammam	Khammam	Sathupalli	277.4033
5			Khammam	52.6488
<b>Khammam Circle Total::</b>				<b>330.0521</b>
<b>Grand Total::</b>				<b>1602.287</b>

- Out of which **275.44 ha** is falling in notified Eco Sensitive Zone (ESZ) of Kinnerasani wild life Sanctuary, but does not fall in the Kinnerasani WLS. An extent of about **167.5191 ha** of Non forest area also falls in notified ESZ.
- The total extent of non-Forest area required for diversion for the purpose of SRLIP is **5429.90 ha**, out of which **167.5191 ha** of area falls in notified ESZ of Kinnerasani WLS.
- The alignment is marked in the field with boundary stones. The actual involvement of forest land and its extent is ascertained after joint field inspection with forest authorities.
- Non-forest CA lands have been identified in an area of **1983.2943 Ha** to handover to the forest department for raising compensatory afforestation.
- The ETS & DGPS/ GNSS Survey for the forest areas proposed for diversion as well as the non-forest CA lands have been carried out, authenticated by forest department and same are overlaid on the SOI topo maps and furnished along with the proposals.
- This Project proposal **doesn't involve any places of historical, religious, archaeological, recreational importance.**
- Necessary undertakings to pay NPV & additional NPV, cost of raising and CA & its maintenance. cost of ETG etc., and other documents required under Forest (Conservation) Act, 1980 have been furnished.

The Proposals were forwarded to FDOs of Kothagudem, Paloncha and Manuguru and to process the same under Forest (Conservation) Act,1980 and Rules & amendments issued therein and as per the instructions of Prl. Chief Conservator of Forests (HoFF), issued from time to time in this regard and submit the processed proposals along with mandatory information / certificates.

Further the FDOs of Bhadradi Kothagudem District have been requested to inspect the non-forest CA lands identified for CA for assessing the suitability for raising CA and prepare CA scheme as per the guidelines issued from time to time. Also all the six FDOs have been requested to identify the degraded forest land for Compensatory afforestation and prepare scheme to meet the requirement of planting 1000 plants/ ha of forest land diverted for the Project. Issued instructions to the Forest Divisional Officers to submit the Proposal in a complete shape.

Accordingly the Forest Divisional Officers have submitted the proposals in (5) sets (Each Division) vide references 2<sup>nd</sup> to 7<sup>th</sup> cited above. The division wise details are as follows.

**II(A). The Forest Divisional Officer, Kothagudem has furnished the information in Part II, Inspection Report, Covering letter, as detailed below:**

- The above said proposals were forwarded to the Forest Range Officer, Ramavaram, Chandrugonda and Julurupadu having jurisdiction over the proposed forest area for diversion, for processing under Forest (Conservation) Act, 1980 and the relevant rules and guidelines issued by GoI, MoEF&CC from time to time. The Forest Range Officer, **Ramavaram, Chandrugonda and Julurupadu** have inspected the areas, enumerated the tree growth and submitted the report to the under signed.
- The detailed field inspection of the proposed area was conducted on 18.09.2017, 25.09.2017, 03.11.2017 & 04.11.2017 along with the concerned officials of the User Agency, verified the extent of forest area, studied the effect of the Project on the protection and conservation of the forest and mitigation measures against the ill affects of the project on the forest. vulnerability of the forest due to the construction of the project, particularly in hillocks and on wildlife and test checked the enumeration list of the standing trees.
- The requirement of the forest area from Kothagudem Division submitted by the User Agency is **418.3755 ha**. After through verification and joint inspection of Revenue and Forest Departments, an area of **49.2833 ha** in (2 Patches & 1 Patch partly) in Julurupadu Range are identified as non-forest area and outside the notified Reserve Forest. The final area statement of the forest areas of Kothagudem Division falling in the alignment of SRLIP is furnished below:

Sl. No.	Range	Patch No.	Beat.	Proposed Forest Area in ha	Revised Forest Area in ha
1	2	3	4	5	6
1	Ramavaram	30	Marrigudem	18.8207	18.8207
2	Chandrugonda	35	Maddukuru	5.3648	5.3648
3	Chandrugonda		Maddukuru	15.0006	15.0006
4	Chandrugonda	36A	Bendalapadu (E)	21.2789	21.2789
5	Chandrugonda		Ravikampadu	20.7974	20.7974
6	Chandrugonda		Pokalagudem	13.3327	13.3327
7	Chandrugonda		Pokalagudem	30.4316	30.4316
8	Julurupadu	37	N.B. Bodu	10.1633	10.1633
9	Julurupadu	39	N.B. Bodu	3.7815	3.7815
10	Julurupadu	40	Gundepudi	16.8811	16.8811
11			Gundepudi	5.4196	5.4196
12	Julurupadu	41	Papkole-B	59.284	59.284
13			Papkole-B	74.3576	74.3576
14	Julurupadu	59	Papkole-B	10.7796	10.7796
15	Julurupadu	61	Rajupalem	40.1159	0
16	Julurupadu	62	Rajupalem	8.8616	3.317
17	Julurupadu	63	Rajupalem	3.6228	0

18	Chandrugonda	65	Pentlam	0.4144	0.4144
19	Chandrugonda	66	Pentlam	3.7956	3.7956
20	Chandrugonda	67	A.R. Palli	11.0388	11.0388
21				14.6588	14.6588
22	Chandrugonda	68	Pentlam	30.1742	30.1742
			<b>TOTAL::</b>	<b>418.3755</b>	<b>369.0922</b>

• **Purpose-wise break up of forest land is detailed below:**

S. No	Component	Area in ha	Remarks
1	Pressure main	0	
2	Gravity Canals and CM/CD works	354.9956	
3	Power line 1 of 220 kV line.	10.7796	RoW for laying 220 kV is taken as 35 m and for 400 kv line RoW is taken as 46 m which is as per the specification issued by MoEF&CC. GoI vide Lr.No.7-25/2012-FC. dt.05.05.2014
4	Power line 2 of 400 kV line	0	
5	Tunnel	0	
6	Distributary	3.317	
	<b>Total</b>	<b>369.0922</b>	

- The area proposed for diversion for excavation of canal, Power line and Distributary is passing through various Reserve Forests of Ramavaram, Chandrugonda and Julurupadu Ranges and rich in biodiversity. Most of the forest area is passing through the plains, about 15% of the alignment is passing through the hillocks. Due to the project, the stability of the canal side of the hillocks will be affected and become vulnerable to erosion and this will cause erosion of the forest land on one side and on the other side may damage the canals.
- The legal status of the said forest areas proposed for diversion is as follows:
  - **18.8207 Ha** of Compartment No. 38 of Marrigudem Beat in Penagadapa R.F, notified U/s.18 vide Gazette No.16, dt: 25.04.1344F.
  - **5.3648 Ha** of Compartment No. 95 of Maddukuru Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **15.0006 Ha** of Compartment No. 126 of Maddukuru Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **21.2789 Ha** of Compartment No. 94 of Bendalapadu (E) Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **20.7974 Ha** of Compartment No. 92 of Ravikampadu Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **13.3327 Ha** of Compartment No. 91 of Pokalagudem Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **30.4316 Ha** of Compartment No. 90 of Pokalagudem Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **10.1633 Ha** of Compartment No. 89 of Nallabanda Bodu Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **3.7815 Ha** of Compartment No. 86 of Nallabanda Bodu Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **16.8811 Ha** of Compartment No. 88 of Gundepudi Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **5.4196 Ha** of Compartment No. 87 of Gundepudi Beat in Kanakagiri R.F, notified U/s.15 vide G.O.No 23 dt. 17-6-1356 F.
  - **61.4781 Ha** of Compartment No. 32 of Papkole-B Beat in Cheemalapadu R.F, notified U/s.18 vide G.O.Ms.No.306, dt: 27.03.1350F.

- **82.9431 Ha** of Compartment No. 31 of Papkole-B Beat in Cheemalapadu R.F, notified U/s.18 vide G.O.Ms.No.306, dt: 27.03.1350F.
- **3.317 Ha** of Compartment No. 85 of Rajupalem Beat in Julurupadu R.F, notified U/s.15 vide G.O.No. 523 F& RD (For.III) dt. 11-10-1974.
- **4.21 Ha** of Compartment No. 131 of Pentlam Beat in Annapureddypalli R.F, notified U/s.15 vide Gazette.No. 3 dt. 16-1-1350 F.
- **11.0388 Ha** of Compartment No. 129 of Annapureddypalli Beat in Annapureddypalli R.F, notified U/s.15 vide Gazette.No. 3 dt. 16-1-1350 F.
- **14.6588 Ha** of Compartment No. 128 of Annapureddypalli Beat in Annapureddypalli R.F, notified U/s.15 vide Gazette.No. 3 dt. 16-1-1350 F.
- **30.1742 Ha** of Compartment No. 132 of Pentlam Beat in Annapureddypalli R.F, notified U/s.15 vide Gazette.No. 3 dt. 16-1-1350 F.
- **The Proposed Canal, Power line and Distributary are passing through the middle of forest and located at a distance varying from 0 km to 2.50 km from forest boundary approximately.**
- 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>

- The said proposed area for diversion **does not form part of** National Park, Wildlife Sanctuary, Biosphere reserve, Tiger reserve, Elephant Corridor etc.
- 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.
- As per the proposals with alternatives submitted by the user agency and technical details involved in the project at col.2 of Part-I, the area proposed is unavoidable and barest minimum required.
- The vegetation is of good forest with natural generation of misc species with Bojja, Togara, Nallamaddi, Chiruman, Tuniki, Pala, Narayepi, Billudu, Teak, Bamboo etc. and canopy density as shown above.
- 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 etc.
- As regards the landuse/ landcover, the details 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>

- **94.389 Ha** of forest area proposed for diversion is under encroachment.
- **55 ha** is covered under plantations raised by forest department under various schemes. For **55 ha** loss of plantation raised by forest department, the UA has to pay the cost of raising and maintenance of plantation over 55 ha in degraded forest land.
- 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.
- **Enumeration of Tree Growth:** The total enumeration of tree growth was taken up. The yield particulars of tree growth enumeration for **55856** trees in which, **28804** poles and as per the report submitted by FROs, Ramavaram, Chandrugonda and Julurupadu 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
Pentalam	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
Pentalam	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>

- **No Work in violation of Forest (Conservation) Act, 1980 has been committed by the User Agency.**

**RoFR Certificate:** The proposal is examined in the light of guidelines issued by the Government of India under Scheduled Tribes and other Traditional Dwellers (recognition of Forest Rights) Act 2006 Vide Lr.No.11-9/1998-Fc (Pt) Dt.03.08.2009 and 05.07.2013 is examined and there are 92 No. of claims covering an area of **52.347 ha** (129.35 acre) under RoFR Act in the proposed areas for diversion. The Collector, Bhadradi Kothagudem District. vide Rc.No. A6/ITDA/RoFR/354/SRLIP/2017, Dt: 09.11.2017 has issued RoFR certificate in **Form-I** (for Linear Projects) certifying that the complete process for identification and settlement of rights under FRA has been carried out for the **entire 369.0922 Ha of forest area**. The resolutions of Division Level Committee and Sub – Divisional level Committee and the Gram Panchayath are enclosed. For the RoFR Right holders the UA has to make payment as per the R&R policy of the Government. The User Agency has furnished undertaking to make payments to the RoFR claimants as per the R&R package approved by the District Collector, Bhadradi Kothagudem District.

**The details of site inspection report of FDO Kothagudem (enclosed):**

The details of observations mentioned in the field inspection of the forest area proposed for diversion are furnished below.

- The site inspection was conducted on 18.09.2017, 25.09.2017, 03.11.2017 & 04.11.2017 and test checked the boundary demarcation at stations of proposed for diversion.
- 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 forest area proposed for diversion in Kothagudem division is **369.0922 Ha**, consists of **354.9956 ha** for canals, **3.317 ha** for Distributary, **10.7796 ha** for power line.
- It is observed that the majority of the proposed area is falling in **Penagadapa** Reserve Forest Block, **Kanakagiri** Reserve Forest Block, **Cheemalapadu** Reserve Forest Block, **Julurupadu** Reserve Forest Block, **Annapureddypalli** Reserve Forest Block with dense miscellaneous mixed forest with canopy density of about 0.1 to 0.7.
- The proposed Forest area for diversion is interspersed with RoFR title and encroachments and the details are furnished in the Field inspection Notes.
- The alignment is passing through middle of the forests at certain reaches and fragmenting the forest areas.
- The Movement of wildlife is evidenced at some places and the construction of the project may cause disturbance to the wildlife. Hence, detailed Wildlife conservation plan is prepared for an amount of **Rs 81.039 Lakhs** and enclosed.
- A detailed **CAT plan** is prepared for an amount of **Rs. 68.57909 Lakhs** to minimize the soil erosion, for protection of remnant blocks duly proposing the appropriate works and enclosed.

- Scheme for raising canal bank plantations has been prepared for an amount of **Rs 125.18623 Lakhs** to stabilize the canal banks and scheme is enclosed.
- Total enumeration is taken up and there are 55856 trees including 27052 trees of < 30 cm in girth. The details 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 said proposed area for diversion does not form part of National Park, Wildlife Sanctuary, Biosphere reserve, Tiger reserve, Elephant Corridor etc.
- 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.
- In the proposed area **55.00 Ha** is under plantations raised under various Schemes. For the loss of the plantations CA scheme for raising of plantations with 10 years of maintenance in **55.00 Ha** in degraded forest land is prepared and enclosed.

**Compensatory Afforestation (NFL):** No Non-Forest land is identified in Kothagudem Division by the User Agency. An area of **175.00 Ha** is proposed for CA in degraded forest land in Kothagudem Division to meet the requirement of planting 1000 plants/ ha of forest land diverted for the Project. Further, to compensate the loss of plantations raised under JFM, APCFM, 13<sup>TH</sup> FDA, CAMPA (NFM) Schemes 1998-99, 2000-01, 2006-07, 2008-09, 2015-16, 2016-17 & 2017-18 under Eucalyptus, Bamboo, NTSH in an area of **55.00 Ha** (Ramavaram Range-4.90 Ha, Chandrugonda Range-30 Ha & Julurupadu Range- 20.1 Ha). CA is proposed in an area of 55 Ha in degraded forest land. Hence the total area proposed for CA in DFL is **230.00 Ha**. 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>

**The financial outlay of the CA scheme is Rs. 1423.60059 Lakhs in DFL and the CA Schemes are enclosed.**

**The FDO, Kothagudem has recommended the Project in Part II with the following observations and conditions:**

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 mtrs in height and 4 mtrs 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.

**II(B). The Forest Divisional Officer, Paloncha has furnished the information in Part II, Inspection Report, Covering letter, as detailed below:**

- The proposals were forwarded to the Forest Range Officers, Paloncha, Mulakalapally and Dammappeta having jurisdiction over the proposed forest area for diversion. for processing under Forest (Conservation) Act, 1980 and the relevant rules and guidelines issued by GoI from time to time. The Forest Range Officers, Paloncha, Mulakalapally and Dammappeta have inspected the areas, enumerated the tree growth and submit the report.
- The detailed field inspection of the proposed area was conducted on 23.09.2017, 31.10.2017, 01.11.2017 & 02.11.2017 along with the concerned officials of the User Agency. verified the extent of forest area, studied the effect of the Project on the protection and conservation of the the forest and mitigation measures against the ill affects of the project on the forest,

vulnerability of the forest due to the construction of the project, particularly in hillocks and on wild life, test checked the enumeration list of the standing trees.

- The requirement of the land in Paloncha Division submitted by User Agency is 640.9060 Ha. After thorough verification and joint inspection of Revenue and Forest Departments, an area of 21.9489 Ha in (5) patches in Dammapeta Range are falling outside the Reserve Forest. The final area statement of the forest areas of Palvancha division falling in the alignment of SRLP is furnished below:

Sl No	Name of the Range	Patch No	Name of the Beat	Proposed Forest Area in Ha	Revised Forest area in Ha
1	Paloncha	Patch-7	Uppusaka	3.5640	3.5640
2	Paloncha	Patch-7	Uppusaka	34.9296	34.9296
3	Paloncha	Patch-11	Cheruvu Sinagaram	29.0710	29.0710
4	Paloncha	Patch-23	Cheruvu Sinagaram	5.3142	5.3142
			<b>ESZ Sub-Total:</b>	<b>72.8788</b>	<b>72.8788</b>
1	Paloncha	Patch-9	Nagaram	4.4679	4.4679
2	Paloncha	Patch-12	Bandarugonda	18.1500	18.1500
3	Paloncha	Patch-12	Kothuru	4.8053	4.8053
4	Paloncha	Patch-13	Nagaram	0.3685	0.3685
5	Mulakalapally	Patch-31	Chaparalapally East	63.7100	63.7100
6	Mulakalapally	Patch-31	Ramanjaneyapuram South	72.4046	72.4046
7	Paloncha	Patch-33	Madharam	4.6197	4.6197
8	Paloncha	Patch-34	Madharam	49.0969	49.0969
9	Paloncha	Patch-34	Vadduramavaram	29.3100	29.3100
10	Paloncha	Patch-34	Kommugudem	12.9070	12.9070
11	Mulakalapally	Patch-43	Chaparalapally East	2.4539	2.4539
12	Mulakalapally	Patch-44	Kamalapuram	13.6847	13.6847
13	Mulakalapally	Patch-45	Chaparalapally East	10.9255	10.9255
14	Mulakalapally	Patch-45	Kamalapuram	7.9782	7.9782
15	Paloncha	Patch-46	Vadduramavaram	5.9625	5.9625
16	Paloncha	Patch-47	Madharam	1.8926	1.8926
17	Paloncha	Patch-48	Madharam	6.8855	6.8855
18	Paloncha	Patch-48	Kommugudem	3.9800	3.9800
19	Mulakalapally	Patch-48	Ramanjaneyapuram South	5.5530	5.5530
20	Mulakalapally	Patch-51	Chaparalapally East	6.8720	6.8720
21	Mulakalapally	Patch-51	Kamalapuram	2.3710	2.3710
22	Mulakalapally	Patch-51	Oddugudem	2.6010	2.6010
23	Mulakalapally	Patch-52	Chaparalapally East	3.4398	3.4398
24	Mulakalapally	Patch-53	Kamalapuram	22.2460	22.2460
25	Paloncha	Patch-54	Madharam	28.3997	28.3997
26	Paloncha	Patch-55	Madharam	2.8619	2.8619
27	Mulakalapally	Patch-57	Mangapeta	7.7635	7.7635
28	Mulakalapally	Patch-58	Mangapeta	1.5200	1.5200
29	Dammapeta	Patch - 70	Gandugulapally	1.7608	1.7608

30	Dammapeta	Patch - 71	Balarajgudem	15.3742	15.3742
31	Dammapeta	Patch - 72	Ankampalem	3.0185	3.0185
32	Dammapeta	Patch - 73	Arlapenta	2.4349	0
33	Dammapeta	Patch - 74	Arlapenta	1.3765	0
34	Dammapeta	Patch - 75	Malkaram	0.9968	0.9968
35	Dammapeta	Patch - 76	Dibbagudem	3.3584	3.3584
36	Dammapeta	Patch - 77	Dibbagudem	8.0786	8.0786
37	Dammapeta	Patch - 78	Bandarigumpu	9.4746	9.4746
38	Dammapeta	Patch - 78	Thogudem Tirumalakunta	15.0051	15.0051
39	Dammapeta	Patch - 80	Thogudem Tirumalakunta	7.8231	7.8231
40	Dammapeta	Patch - 81	Thogudem Tirumalakunta	7.3410	7.3410
41	Dammapeta	Patch - 82	Thogudem Tirumalakunta	1.5981	1.5981
42	Mulakalapally	Patch - 83	Chaparalapally East	1.1348	1.1348
43	Mulakalapally	Patch - 83	Oddugudem	5.9777	5.9777
44	Dammapeta	Patch - 87	Malkaram	8.5723	8.5723
45	Mulakalapally	Patch - 88	Oddugudem	3.3652	3.3652
46	Mulakalapally	Patch - 88	Oddugudem	13.2402	13.2402
47	Mulakalapally	Patch - 90	Chaparalapally East	2.0309	2.0309
48	Mulakalapally	Patch - 91	Chaparalapally East	0.3671	0.3671
49	Dammapeta	Patch - 92	Nallamudi	6.3536	6.3536
50	Dammapeta	Patch - 93	Thoggudem West	12.7770	12.7770
51	Dammapeta	Patch - 94	Ankampalem	17.1169	17.1169
52	Dammapeta	Patch - 95	Ankampalem	4.0827	4.0827
53	Dammapeta	Patch - 96	Dammapeta	10.3841	0
54	Dammapeta	Patch - 97	Malkaram	5.5973	0
55	Dammapeta	Patch - 98	Malkaram	2.1561	0
			<b>Sub Total:</b>	<b>568.0272</b>	<b>546.0783</b>
			<b>Grand Total:</b>	<b>640.9060</b>	<b>618.9571</b>

- **Purpose-wise break up of forest land is detailed below:**

S. No.	Component	Area in Ha.	Remarks.
1	Pressure main	38.9844	
2	Gravity Canals and CM/CD works	521.2056	
3	Power line 1 of 220 KV line.	37.4095	RoW for laying 220 KV is taken as 35 M and for 400 KV line RoW is taken as 46 M which is as per the specification issued by MoEF & CC, Gol vide Lr.No.7-25/2012-FC, dt.05.05.2014
4	Power line 2 of 400 KV line	21.3576	
	<b>Total:</b>	<b>618.9571</b>	

- The area proposed for diversion for excavation of canal, pressure main and power lines are passing through various Reserve Forests of Dammapeta, Mulakalapally and Paloncha Ranges and rich in biodiversity. The terrain is undulating and hilly, which is vulnerable to erosion.
- The legal status of the forest areas proposed for diversion is as follows:

- **38.4936 Ha** of Compt Nos.249 & 250 of Uppusaka Beat in Uppusaka RF Block notified under section 4 vide G.O.Ms. No. 2071 F and A For. III Dept. dt. 20/11/1969.
- **34.3852 Ha** of Compt Nos.228 & 229 of Cheruvusingaram Beat in Kistasagar RF Block notified under section 15 vide G.O.Ms.No.92, EFS&T (Form-II-2), Dt:16.04.1993.
- **4.8364 Ha** of Compt Nos.265 & 266 of Nagaram Beat in Narayanaraopeta-A&B RF Block notified under section 19 vide. G.O.Ms.No.2009 F&A(For.III). 27-06-65.
- **18.15 Ha** of Compt No.267 of Bandrugonda Beat in Dantalabora RF Block notified under section 19 vide G.O.Ms.No.121(Ag) , Dt:18-01-63.
- **4.8053 Ha** of Compt No.272 of Kothuru Beat in Dantalabora RF Block notified under section 19 vide G.O.Ms.No.121(Ag) , Dt:18-01-63.
- **90.934 Ha** of Compt Nos.42 & 43 of Chaparalapally East Beat in Annapureddipally RF Block notified under section 15 vide Gazette. No.3 dt.16-1-1350 F.
- **25.1841 Ha** of Compt Nos.44 & 45 of Oddugudem Beat in Annapureddipally RF Block notified under section 15 vide Gazette.No. 3 dt.16-1-1350 F.
- **55.9824 Ha** of Compt No.283 of Madharam Beat in Mulakalapally RF Block notified under section 15 vide G.O.Ms.No.1163 F&A (For-III), Dt:18-10-1973.
- **16.8870 Ha** of Compt No.277 of Kommugudem Beat in Mulakalapally RF Block notified under section 15 vide G.O.Ms.No.1163 F&A (For-III), Dt:18-10-1973.
- **77.9576 Ha** of Compt No.289 & 290 of Ramanjaneyapuram South Beat in Mulakalapally RF Block notified under section 15 vide G.O.Ms.No.1163 F&A (For-III). Dt:18-10-1973.
- **35.2725 Ha** of Compt No.276 of Vadduramavaram Beat in Mulakalapally RF Block notified under section 15 vide G.O.Ms.No.1163 F&A (For-III), Dt:18-10-1973.
- **1.7608 Ha** of Compt No.196 of Gandugulapally Beat in Nagupally RF Block notified under Section 15 vide G.O.Ms.No.750F & A dt, 7-1-1974.
- **15.3742 Ha** of Compt No.318 of Balarajugudem Beat in Balarajuguda RF Block notified under Section 15 vide G.O.No.436 dt. 16-5-1345 F.
- **24.2181 Ha** of Compt No.304 of Ankampalem Beat in Devunigutta RF Block notified under Section 15 vide G.O.Ms.NO.1099 F&A, dt. 2-8-1971.
- **8.0786 Ha** of Compt No.300 of Dibbagudem Beat in Latchpur RF Block notified under Section 15 vide G.O.Ms.No. 1752 dt. 11-12-1954.
- **24.4263 Ha** of Compt No.225, 226, 227 & 299 of Thoggudem Thirumalakunta Beat in Thirumalakunta RF Block notified under Section 15 vide G.O.Ms.No.247 F&A dt.15-7-1974.
- **9.4746 Ha** of Compt No.223 of Bandarigumpu Beat in Thirumalakunta RF Block notified under Section 15 vide G.O.Ms.No.247 F&A dt.15-7-1974.
- **7.3410 Ha** of Compt No.299 of Thoggudem Thirumalakunta Beat in Thoggudem RF Block notified under Section 15 vide G.O.Ms.No.247 F&A dt.15-7-1974G.O.Ms.No. 460 dt. 29-3-1971.
- **8.5723 Ha** of Compt No.322 of Malkaram Beat in Thirumalakunta Ext-I RF Block notified under Section 4 vide G.O.Ms.No. 38, EFS&T(For-I)Dept. dt. 29-04-2011.
- **6.3536 Ha** of Compt No.185 of Nallamudi Beat in Nallamudi RF Block notified under Section 15 vide G.O.Ms.No.158 EFS&T dt. 16-11-1996.

- **12.777 Ha** of Compt No.186 of Thoggudem West Beat in Jaganadhapuram RF Block notified under Section 4 vide G.O.Ms.No.1918 F&RD (For.III) dt. 15-9-1970.
- **0.9968 Ha** of Compt No.301 of Malkaram Beat in Lachapur Extn.I RF Block notified under Section 15 vide G.O.Ms.No.57 EFS &T dt. 29-5-1997.
- **9.2835 Ha** of Compt No.295 of Mangapeta Beat in Mulakalapally Ext-I RF Block notified under section 15 vide G.O.Ms.No.690-III, dt:23-09-1976.
- **37.7739 Ha** of Compt No.297 of Madharam Beat in Mulakalapally Ext-II RF Block notified under section 15 vide G.O.Ms.No.8 F&A (For-III), Dt:03-01-1974.
- **56.2799 Ha** of Compt No.39 of Kamalapuram Beat in Penagadapa RF Block notified under section 18 vide G.O.Ms.No.16 Dt:25.04.1344 F.
- **The Proposed Canal and powerline are passing through the middle of forest at certain places and located at a distance varying from 0 km to 2.50 km from forest boundary approximately.**
- The forests are Tropical Dry Deciduous Forests with 0.1 to 0.7 canopy density. The density break-up of **618.9571 Ha** is given below:

Density Class	Area in ha
0.4 to 0.7	39.7379
<0.4	579.2192
<b>Total</b>	<b>618.9571</b>

- The said proposed area for diversion **does not form part of** National Park, Wildlife Sanctuary, Biosphere reserve, Tiger reserve, Elephant Corridor etc. However, an extent of **72.8788 Ha** is falling in notified Eco-Sensitive Zone of Kinnerasani Wildlife Sanctuary. Separate proposals are submitted by the User Agency for clearance from National Board for Wildlife.
- 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.
- As per the proposals with alternatives submitted by the user agency and technical details involved in the project at col.2 of Part-I, the area proposed is unavoidable and barest minimum required.
- The vegetation is of good forest with natural generation of misc species with Tiruman, Pala Kodisa, Tuniki, Tani, Yegisa, Jitregi, Maddi, Ippa, Gumpena, Chennangi, Karangi, Duddi, Teak, Chilla, Chinduga, Pachare, Naravepa, Buruga, Rathangi, etc., and canopy density as shown above.
- The fauna found in the proposed area are Spotted Deer, Sambar, Chinkara, Nilgai, Bison, Wild Boar, Rabbit, Avian fauna, Porcupine, Snakes, Lizards etc
- As regards the landuse/ landcover, the details are as follows:

Section	Beat	Block	Compt	Area_Ha	Landuse/ Land cover (in Ha)			
					Plantn	RoFR	Encr	Forest
Nagupally	Gandugulapally	Nagupally	196	1.7608	0	0	0	1.7608
Nagupally	Balarajgudem	Balrajuguda	318	15.3742	0	0	0	15.3742
N.J.Puram	Ankampalem	Devunigutta	304	24.2181	0	0	0	24.2181
Tirumalakunta	Malkaram	Lachapuram Ext-I	301	0.9968	0	0	0	0.9968
Tirumalakunta	Dibbagudem	Lachapuram	300	11.437	0	0	0	11.437

Tirumalakunta	Malkaram	Thirumalakunta Extn	322	8.5723	0	0	1.21	7.3623
Pusukunta	Bandarigumpu	Thirumalakunta	223	9.4746	0	0	0	9.4746
Tirumalakunta	Thogudem Tirumalakunta	Thirumalakunta	225	13.5304	0	0	0	13.5304
Tirumalakunta	Thogudem Tirumalakunta	Thirumalakunta	226	5.4219	0	0	2.75	2.6719
Tirumalakunta	Thogudem Tirumalakunta	Thirumalakunta	227	3.8759	0	0	0.5	3.3759
Tirumalakunta	Thogudem Tirumalakunta	Thoggudem	299	8.9391	0	0	6.2	2.7391
N.J.Puram	Nallamudi	Nallamudi	185	6.3536	0	0	6.3536	0
N.J.Puram	Thoggudem West	Jagannathapuram	186	12.777	0	5.3135	7.4635	0
		<b>Total:</b>		<b>122.7317</b>	<b>0</b>	<b>5.3135</b>	<b>24.4771</b>	<b>92.9411</b>
Suraram	Uppusaka	Uppusaka	249,250	38.4936	0	35.1478	3.3458	0.0000
Madharam	Madharam	Mulakalapally Ext-II	297	37.7739	0	0	0	37.7739
	Madharam	Mulakalapally	283	55.9824	0	0	0	55.9824
	Kommugudem	Mulakalapally	277	16.887	0	0	0	16.887
	Wodduramavaram	Mulakalapally	276	35.2725	0	0	15.27	20.0025
	Kothur	Mulakalapally	272	4.8053	0	0	4.8053	0
	Bandrigonda	Dantalabora	267	18.15	0	0	18.15	0
Musalimadugu	Cheruvusingaram	Kistasagar	228,229	34.3852	0	16.9564	0	17.4288
Nagaram	Nagaram	Narayanaraopeta-A&B	265,266	4.8364	0	0	2.47	2.3664
		<b>Total:</b>		<b>246.5863</b>	<b>0</b>	<b>52.1042</b>	<b>44.0411</b>	<b>150.4410</b>
Mulakalapally	Ramanjanayapuram (S)	Mulakalapally	289	27.8666	0	12.8205	0	223.1686
Mulakalapally	Ramanjanayapuram (S)	Mulakalapally	290	50.091	0		0	
Chaparalappally	Kamalapuram	Annapareddypally	39	46.2799	12		0	
Chaparalappally	Chaparalappally (E)	Annapareddypally	42 & 43	90.934	1.65		0	
Chaparalappally	Oddugudem	Annapareddypally	44&45	25.1841	0		0	
Mulakalapally	Mangapeta	Mulakalapally Ext-I	295	9.2835	0		0	
		<b>Total:</b>		<b>249.6391</b>	<b>13.65</b>	<b>12.8205</b>	<b>0</b>	<b>223.1686</b>
		<b>Grand Total:</b>		<b>618.9571</b>	<b>13.65</b>	<b>70.2382</b>	<b>68.5182</b>	<b>466.5507</b>

- **68.5182 Ha** of forest area proposed for diversion is under encroachment.
- **13.65 Ha** is covered under plantations raised by forest department under CAMPA-NPV-NFM 2017-18 and **97.26 Ha** of plantation raised by forest Development Corporation( included in 466.5507 ha forest land). For the loss of plantations of FDC, the UA has to pay the cost of anticipated loss of field to FDC. For **13.65 Ha** loss of plantation raised by forest department, the UA has to pay the cost of raising and maintenance of plantation over 14.00 Ha in degraded forest land.
- For 70.2382Ha (173.53 Acre) RoFR rights (130 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.

- **Enumeration of Tree Growth:** The total enumeration of tree growth was taken up. The yield particulars of tree growth enumeration for 57496 trees in which, 3128 poles and as per the report submitted by the Forest Range Officers, Paloncha, Mulakalapally and Dammampeta are as follows:

Beat	Compt. No.	Area in Ha	Enumeration of trees			
			Teak (No's)	Teak (Vol in cum)	Non Teak (No's)	Non Teak (Vol in cum)
Gandugulapally	196	1.7608	1296	68.3984	1285	280.5388
Balarajgudem	318	15.3742	0	0	0	0
Ankampalem	304	24.2181	4	0.9157	1742	454.0093
Malkaram	301	0.9968				
Dibbagudem	300	11.4370	0	0	1471	418.4535
Malkaram	322	8.5723				
Bandarigumpu	223	9.4746	0	0	0	0
Thogudem Tirumalakunta	225	13.5304				
Thogudem Tirumalakunta	226	5.4219				
Thogudem Tirumalakunta	227	3.8759	5	0.5106	3805	1052.6586
Thogudem Tirumalakunta	299	8.9391				
Nallamudi	185	6.3536	0	0	75	60.901
Thoggudem West	186	12.7770	0	0	16	13.989
Cheruvusingaram	228	5.3142				
Cheruvusingaram	229	29.0710	4	0.178	130	57.358
Uppusaka	249	3.5640				
Uppusaka	250	34.9296	0	0	0	0
Nagaram	265	4.4679				
Nagaram	266	0.3685	0	0	0	0
Bandrigonda	267	18.1500	21	1.097	424	147.295
Kothur	272	4.8053	2	0.12	60	10.17
Wodduramavaram	276	29.3100				
Wodduramavaram	276	5.9625	702	13.096	2366	593.484
Kommugudem	277	12.9070	55	1.84	2665	505.16
Kommugudem	277	3.9800	12	0.832	247	82.124
Madharam	283	49.0969				
Madharam	283	6.8855				
Madharam	297	28.3997	283	4.625	18770	1572.9788
Madharam	297	2.8619				
Madharam	297	4.6197				
Madharam	297	1.8926	443	12.786	1935	169.509
Ramanjanayapuram (S)	289					
	290	87.2411	284	2.932	12305	2026.445
	295					
Kamalapuram	39	46.2799	0	0	154	68.06
Chaparalapally (E)	42 & 43	90.9340	57	0.719	3419	672.827
Oddugudem	44 & 45	25.1841	28	2.509	3431	76.595
	<b>Total:</b>	<b>618.9571</b>	<b>3196</b>	<b>110.5587</b>	<b>54300</b>	<b>8262.556</b>

- It is proposed to take up translocation of 5000 trees for a cost of Rs.12.24327 Lakhs to be borne by the User Agency. The scheme for translocation of 5000 trees is enclosed.
- No Work in violation of Forest (Conservation) Act, 1980 has been committed by the User Agency.

- **RoFR Certificate:** The proposal is examined in the light of guidelines issued by the Government of India under Scheduled Tribes and other Traditional Dwellers (recognition of Forest Rights) Act 2006 Vide Lr.No.11-9/1998-Fc (Pt) Dt.03.08.2009 and 05.07.2013 is examined and there are 99 nos. of claims under RoFR Act in the proposed areas for diversion. The District Collector, Bhadradi Kothagudem District vide Re.No.A6/ITDA/ROFR/354/SRLIP/2017, Dt:09.11.2017 has issued RoFR certificate in **Form-I** (for Linear Projects) certifying that the complete process for identification and settlement of rights under FRA has been carried out for the **entire 618.9571 Ha of forest area**. The resolutions of Division Level Committee and Sub – Divisional level Committee and the Gram Panchayath are enclosed. The User Agency has furnished undertaking to make payments to the RoFR claimants as per the R&R package approved by the District Collector Bhadradi Kothagudem.

**The details of Site Inspection Report of FDO Paloncha (enclosed):**

The details of my observations in the field inspection of the forest area proposed for diversion are furnished below.

- The site inspection was conducted on 23.09.2017, 31.10.2017, 01.11.2017 & 02.11.2017 and test checked the boundary demarcation at stations of proposed for diversion.
- The requirement of the land in Paloncha Division submitted by User Agency is 640.9060 Ha. After thorough verification and joint inspection of Revenue and Forest Departments, an area of 21.9489 Ha in (5) patches in Dammapeta Range are falling outside the Reserve Forest. The final area statement of the forest areas of Palvancha division falling in the alignment of SRLIP is 618.9571 ha.
- The forest area proposed for diversion of **618.9571 Ha** consists of **521.2056 Ha** for canal, **58.7671 Ha** for powerline and **38.9844 Ha** for pressure main.
- It is observed that the majority of the proposed area is falling in **Mulakalapally** Reserve Forest block, **Annapureddypally** Reserve Forest block and **Thirumalakunta** Reserve Forest block with dense miscellaneous mixed forest with canopy density of about 0.1 to 0.7.
- The proposed Forest area for diversion is interspersed with RoFR titles and encroachments and the details are furnished in the Field inspection Notes.
- The alignment is passing through the middle of the forests at certain reaches and fragmenting the forest areas.
- The movement of wildlife is evidenced at some places and the construction of the project may cause disturbance to the wildlife. Hence, detailed Wildlife conservation Plan is prepared for an amount of Rs 98.372 Lakhs and enclosed.
- Eco-bridge (2 Nos) at 17.410798<sup>0</sup> N & 80.984627<sup>0</sup> E and 17.404738<sup>0</sup> N & 81.001136<sup>0</sup> E are proposed for movement of wildlife.
- UA shall construct **39 CM/CD** structures across the canal for movement of wildlife
- A detailed **CAT plan** is prepared for an amount of **Rs 133.03159 Lakhs** to minimize the soil erosion, for protection of remnant blocks duly proposing the appropriate works and enclosed.
- Scheme for raising canal bank plantations has been prepared for an amount of **Rs.331.77632 Lakhs** to stabilize the canal banks and scheme is enclosed.
- Total enumeration is taken up and there are **57496** trees including **9919** trees of < 30 cm in girth. The details are as follows:

Range	Beat	Compt. No.	Area in Ha	Enumeration of trees			
				Teak (No's)	Teak (Vol in cum)	Non Teak (No's)	Non Teak (Vol in cum)
Dammapeta	Gandugulapally	196	1.7608	1296	68.3984	1285	280.5388
Dammapeta	Balarajgudem	318	15.3742	0	0	0	0

Dammapeta	Ankampalem	304	24.2181	4	0.9157	1742	454.0093
Dammapeta	Malkaram	301	0.9968				
Dammapeta	Dibbagudem	300	11.4370	0	0	1471	418.4535
Dammapeta	Malkaram	322	8.5723				
Dammapeta	Bandarigumpu	223	9.4746	0	0	0	0
Dammapeta	Thogudem Tirumalakunta	225	13.5304				
Dammapeta	Thogudem Tirumalakunta	226	5.4219	5	0.5106	3805	1052.6586
Dammapeta	Thogudem Tirumalakunta	227	3.8759				
Dammapeta	Thogudem Tirumalakunta	299	8.9391				
Dammapeta	Nallamudi	185	6.3536	0	0	75	60.901
Dammapeta	Thoggudem West	186	12.7770	0	0	16	13.989
Paloncha	Cheruvusingaram	228	5.3142	4	0.178	130	57.358
Paloncha	Cheruvusingaram	229	29.0710				
Paloncha	Uppusaka	249	3.5640	0	0	0	0
Paloncha	Uppusaka	250	34.9296				
Paloncha	Nagaram	265	4.4679	0	0	0	0
Paloncha	Nagaram	266	0.3685				
Paloncha	Bandrigonda	267	18.1500	21	1.097	424	147.295
Paloncha	Kothur	272	4.8053	2	0.12	60	10.17
Paloncha	Wodduramavaram	276	29.3100	702	13.096	2366	593.484
Paloncha	Wodduramavaram	276	5.9625				
Paloncha	Kommugudem	277	12.9070	55	1.84	2665	505.16
Paloncha	Kommugudem	277	3.9800	12	0.832	247	82.124
Paloncha	Madharam	283	49.0969				
Paloncha	Madharam	283	6.8855	283	4.625	18770	1572.9788
Paloncha	Madharam	297	28.3997				
Paloncha	Madharam	297	2.8619				
Paloncha	Madharam	297	4.6197				
Paloncha	Madharam	297	1.8926	443	12.786	1935	169.509
Mulakalapally		289					
Mulakalapally	Ramanjanayapuram(S)	290	87.2411	284	2.932	12305	2026.445
Mulakalapally		295					
Mulakalapally	Kamalapuram	39	46.2799	0	0	154	68.06
Mulakalapally	Chaparalapally (E)	42 & 43	90.9340	57	0.719	3419	672.827
Mulakalapally	Oddugudem	44 & 45	25.1841	28	2.509	3431	76.595
		<b>Total:</b>	<b>618.9571</b>	<b>3196</b>	<b>110.5587</b>	<b>54300</b>	<b>8262.556</b>

- The said proposed area for diversion does not form part of National Park, Wildlife Sanctuary, Biosphere reserve, Tiger reserve, Elephant Corridor etc.
- An extent of **72.8788 Ha** is falling in notified Eco-Sensitive Zone of Kinnerasani Wildlife Sanctuary. Further non-forest area of **54.5542 ha** also falling in notified ESZ of Kinnerasani Wildlife Sanctuary. Separate proposals are submitted by the User Agency for clearance from National Board for Wildlife.
- 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.
- In the proposed area, **13.65 Ha** is under plantations raised under CAMPA Scheme. For the loss of the plantations, CA scheme for raising of plantations with 10 years of maintenance in **14.00 Ha** in degraded forest land is prepared and enclosed.

**Compensatory Afforestation (NFL):**

- **605.3581** Ha of non-forest CA land has been identified by User Agency in Dammapeta, Aswaraopeta and Mulakalapally Mandals of Paloncha Division. These lands have been inspected on 02.08.2017 and keeping in view the nature of the land there is no land is found suitable for planting due to existing growth in which singling, copping and bush clearance is proposed along with SMC works. The details are as follows:

Sl No	Mandal	Village	Survey No.	Area in Ha	Area proposed for CA	Remarks
1	Aswaraopeta	Asupaka	225,226 & 229	50.186	0	As per the Nature of the land there is no land is found suitable for planting due to existing growth in which singling, copping and bush clearance is proposed along with SMC works
2	Mulakalapally	Rasannagudem	116	61.66	0	
3	Aswaraopeta	Asupaka	226 & 228	220.318	0	
4	Mulakalapally	Jagannadhapuram	626	21.593	0	
5	Aswaraopeta	Tirumalakunta	631	13.919	0	
6	Aswaraopeta	Tirumalakunta & Bandarugudem	631	31.581	0	
7	Mulakalapally	Nallamudi	626	42.194	0	
8	Dammapeta	Balarajugudem	78P	17.324	0	
9	Dammapeta	Jaggaram	287P	15.581	0	
10	Dammapeta	Nacharam	412P	35.571	0	
11	Mulakalapally	Jagannadhapuram	626	20.479	0	
12	Dammapeta	Ankampalem	350	20.883	0	
13	Dammapeta	Patwarigudem	570/1, 884	28.3431	0	
14	Dammapeta	Patwarigudem	149	25.726	0	
			<b>Total:</b>	<b>605.3581</b>	<b>0</b>	

- The non-forest CA lands are, having moderately dense standing growth of vegetation with miscellaneous native species and good natural regeneration in the CA areas. The soil is of mostly red morram and stabilized due to the moderately dense forest and need of protection and some SMC treatment to control erosion in the steep areas and requires some ANR treatment like Singling and coppicing, seed dibbling in the gap areas etc. Hence Special CA scheme is prepared for an amount of **Rs.898.14701 Lakhs** to deal these non-forest CA areas.
- As the areas are isolated with a small patches, with lot of biotic pressure from adjoining villages and there is every possibility of encroachment of this land for agriculture or for quarry or for any. Hence suitable protection measures are needed from biotic pressure and encroachment. Hence chain link fence is proposed all around the boundary of the CA area.

**Compensatory Afforestation (DFL):**

- In addition to the above non-forest CA land, an area of **440** ha is also proposed for CA in degraded forest land in Paloncha division to meet the requirement of planting 1000 plants/ ha (SMM) of forest land diverted for the Project. Further, to compensate the loss of plantations raised under CAMPA-NPV (NFM) 2016-17 and 2017-18 under NTSH in an area of 13.65Ha(raising 12 Ha + 1<sup>st</sup> year maintenance 1.65 Ha) in Compartment No.43, Chaparalapally (E) Beat of Annapureddypally RF of Mulakalapally Range of Paloncha Division, CA is proposed in in an area of 14 Ha in degraded forest land. Hence the total area proposed for CA in DFL is **454** Ha.

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

Sl. No	Name of the Range	RF	Compt. No.	Extent in Ha
1	Dammapeta	Tirumalakunta	228	15.00
2	Dammapeta	Tirumalakunta	227	25.00
3	Dammapeta	Tirumalakunta	224	30.00
4	Dammapeta	Nagupally	202	30.00
5	Dammapeta	Nagupally	203 & 204	20.00
6	Dammapeta	Balarajugudem	320	100.00
7	Aswaraopeta	Aswaraopeta Ext-1	295	20.00
8	Aswaraopeta	Aswaraopeta Ext-1	292	100.00
9	Mulakalapally	Ramavaram	17	50.00
10	Mulakalapally	Mulakalapally	322	50.00
11	Dammapeta	Duradapadu	249	14.00
			<b>Total:</b>	<b>454.00</b>

The financial outlay of the CA scheme is Rs.898.14701 Lakhs in NFL and Rs. 3199.75956 lakhs in DFL and the CA Schemes are enclosed.

The FDO, Paloncha has recommended the Project in Part II with the following observations and conditions:

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:

- 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,
- Proposed Cross Masonry & Cross Drainage (CM&CD) structures at 39 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.
- 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.
- 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.
- Two Eco-bridges to be constructed by User Agency across the canal with a width of 20 m each for facilitate free passage of Bisons and other ungulates in Tirumalakunta RF of Dammapeta Range at approx 17.410798 degrees N/ 80.984627 degrees E and 17.404738 degrees N/ 81.001136 degrees E in Tirumalakunta beat.   
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- 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.
- An amount of Rs.12.24327 Lakhs is proposed for translocation of 5000 plants, of below 30 cm in girth, to the nearby natural gaps by the forest department are to be provided by the User Agency.

II(C). The Forest Divisional Officer, Manuguru has furnished the information in Part II, Inspection Report, Covering letter, as detailed below:

- The above said proposals were forwarded to the Forest Range Officer, Ashwapuram having jurisdiction over the proposed forest area for diversion, for processing under Forest (Conservation) Act, 1980 and the relevant rules and guidelines issued by GoI from time to time. The Forest Range Officer, Ashwapuram has inspected the areas, enumerated the tree growth and submitted the report to the Undersigned.
- The detailed field inspection of the proposed area was conducted on 28.10.2017 & 02.11.2017 along with the concerned officials of the User Agency, verified the extent of forest area, studied the effect of the Project on the protection and conservation of the forest and mitigation measures against the ill affects of the project on the forest, vulnerability of the forest due to the construction of the project, particularly in hillocks and on wild life, test checked the enumeration list of the standing trees.
- The requirement of the land in Manuguru Division submitted by User Agency is 212.9534 Ha. Conducted joint inspection of the alignment of the canal in forest area with User agency, the requirement of the area by User agency is found correct. The area statement of the forest areas of Manuguru Division falling in the alignment of SRLP is furnished below.

Sl. No.	Range	Patch No.	Beat.	Forest Area Proposed in Ha	Forest Area Revised in Ha
1	2	3	4	5	6
1	Ashwapuram	1	Chinthiryala	10.3922	10.3922
2	Ashwapuram	3	Mondikunta & Satyanarayanapuram	73.9713	73.9713
3	Ashwapuram	5	Sandellapadu	30.6319	30.6319
4	Ashwapuram	10	Kistasagar	60.8132	60.8132
5	Ashwapuram	14	Kistasagar	1.4517	1.4517
6	Ashwapuram	15	Kistasagar	11.2927	11.2927
7	Ashwapuram	17	Satyanarayanapuram	5.2469	5.2469
8	Ashwapuram	20	Mondikunta & Satyanarayanapuram	12.3869	12.3869
9	Ashwapuram	22	Sandellapadu	6.7666	6.7666
<b>TOTAL:</b>				<b>212.9534</b>	<b>212.9534</b>

- **Purpose-wise break up of forest land is detailed below:**

S.No	Component	Area in Ha.	Remarks.
1	Pressure main	0	
2	Delivery cistern	0	
3	Power line 1 of 220 kV line.	31.8979	RoW for laying 220 KV is taken as 35 M and for 400 KV line RoW is taken as 46 M which is as per the specification issued by MoEF & CC, GoI vide Lr.No.7-25/2012-FC. dt.05.05.2014
4	Power line 2 of 220 kV line	0	
5	Gravity Canal	175.8086	
6	Gravity Canal 2	0	
7	Distributory	5.2469	
<b>Total</b>		<b>212.9534</b>	

- The area proposed for diversion for excavation of canal is passing through on one edge of the Chinthiryala RF and in the middle of the Nellipaka-B and Kistasagar Reserve forests of Ashwapuram Range, and rich in biodiversity. The terrain is highly undulating and hilly, which is vulnerable to erosion.
- The legal status of the said forest area proposed is as follows for diversion:
  1. **10.3922** ha of Compartment No.176 of Chinthiryala Beat in Chinthiryala R.F, notified U/s.19 vide G.O. No.1383, Agricultural Dated: 10.07.1961.
  2. **91.6052** ha of Compartment No.207,208 and 209 of Mondikunta and Satyanarayanapuram Beats in Nellipaka-B R.F, notified U/s.15 vide G.O. Ms.No.263 F&RD For- III Dated: 23.03.1975.
  3. **110.9560** ha of Compartment No.218, 219 and 227 of Kistasagar and Sandellapadu Beats in Kistasagar R.F, notified U/s. 15 vide G.O.Ms.No.92 For-II, Dt:16-04-1993.
- **The Proposed Canal, Distributary and Power line passing through the middle of forest and located at a distance varying from 0.1 to 1.25 km from forest boundary approximately.**
- The forests are Tropical Dry Deciduous Forests with 0.1 to 0.6 canopy density. The density break-up of **212.9534** Ha is given below:

Density Class	Area in ha
Density < 0.4	201.9185
Density > 0.4-0.7	11.0349
<b>Total</b>	<b>212.9534</b>

- The said proposed area for diversion **does not form part of** National Park, Wildlife Sanctuary, Biosphere reserve, Tiger reserve, Elephant Corridor etc.
- An extent of 202.5612 Ha of Reserve Forest area is falling in notified Eco-Sensitive Zone of Kinnerasani Wildlife Sanctuary. Further non-forest area of 54.5542 ha also falling in notified ESZ of Kinnerasani Wildlife Sanctuary.
- 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.
- As per the proposals with alternatives submitted by the user agency and technical details involved in the project at col.2 of Part-I, the area proposed is unavoidable and barest minimum required.
- The vegetation is of good forest with natural generation of misc species with Tiruman, Pala Kodisa, Tuniki, Tani, Yegisa, Jitrege, Maddi, Ippa, Gumpena, Chennangi, Naravepa, Karangi, Duddi, Teak, Chilla, Chinduga etc. and canopy density as shown above.
- The fauna found in the proposed area are Spotted deer, Sambar, Chinkara, Nilgai, Bison, Wild Boar, Rabbit, Avian Fauna, Porcupine, Snakes, Lizards. etc.
- As regards the land use/ land cover, the details are as follows:

Sl. No.	Name of the Range	Name of the Beat	Name of the Block	Co mpt . No.	Area of the canal/Power Line/Distributary	Land cover/Land Use( in Ha).				Total
						Throug h RF	Plantat ion	RoFR	Encroa chments	
1	2	3		4	5	6	7	8	9	9
1	Ashwapuram	Chintiryala	Chintiryala	176	10.3922	0	8.3692	2.023	0	10.3922
<b>Non-ESZ Area Total:</b>					<b>10.3922</b>	<b>0</b>	<b>8.3692</b>	<b>2.023</b>	<b>0</b>	<b>10.3922</b>
2	Eravendi	Mondikunta	Nellipaka-B	207	21.9993	0	12.980	1.3031	7.7162	21.9993
3	Eravendi	Mondikunta	Nellipaka-B	208	9.5888	2.4688	0	0	7.120	9.5888
4	Eravendi	Sathyannarayapuram	Nellipaka-B	209	60.0171	24.3527	2.820	0	32.8444	60.0171
5	Sarapaka	Kistasagar	Kistasagar	218	34.684	5.784	20.330	0	8.570	34.6840
6	Sarapaka	Kistasagar	Kistasagar	219	38.8736	26.5526	0	1.0117	11.3093	38.8736
7	Sarapaka	Sandellapadu	Kistasagar	227	37.3984	16.3394	6.700	10.821	3.529	37.3984
<b>ESZ Area of KWS Total:</b>					<b>202.5612</b>	<b>75.4975</b>	<b>42.830</b>	<b>13.1358</b>	<b>71.0979</b>	<b>202.5612</b>
<b>Total :</b>					<b>212.9534</b>	<b>75.4975</b>	<b>51.1992</b>	<b>15.1588</b>	<b>71.0979</b>	<b>212.9534</b>

- **71.0979 ha** of forest area proposed for diversion is under encroachment.
- **51.1992 ha** is covered under plantations raised by forest department under various schemes in different years are falling in the alignment. For **51.199 ha** loss of plantations raised by forest department, the UA has to pay the cost of raising and maintenance of plantation over 52 ha in degraded forest land.
- **Enumeration of Tree Growth:** The total enumeration of tree growth was taken up. The yield particulars of tree growth enumeration for 30746 trees and 4752 poles and as per the report submitted by the Forest Range Officer, Ashwapuram are as follows:

Beat	Compt.	Area ha	Enumeration of trees					
			Teak (No's)	Teak (in cum)	Non Teak (No's)	Non Teak (in Cum)	EP (No's)	EP (in Cum)
Chinthiryala	176	10.3922	0	0	18	23.4365	0	
Mondikunta	207 & 208	31.5881	12	1.5713	1061	516.1030	11414	404.8511
Satyanarayanapuram	209	60.0171	2	0.0389	1248	374.0368	29	2.8791
Kistasagar	218 & 219	73.5576	257	9.4835	5796	1733.0082	4398	286.7395
Sandellapadu	227	37.3984	17	1.0647	1095	331.8632	10151	232.3286
<b>Total</b>		<b>212.5934</b>	<b>288</b>	<b>12.1584</b>	<b>9218</b>	<b>2978.4477</b>	<b>25992</b>	<b>926.7983</b>

- **No Work in violation of Forest (Conservation) Act, 1980 has been committed by the User Agency.**
- **RoFR Certificate:** The proposal is examined in the light of guidelines issued by the Government of India under Scheduled Tribes and other Traditional Dwellers (recognition of Forest Rights) Act 2006 Vide Lt.No.11-9/1998-Fc (Pt) Dt.03.08.2009 and 05.07.2013 is examined and there are 27 no.of claims (15.1588 Ha) under RoFR Act in the proposed areas for diversion. The Collector, Bhadradi Kothagudem vide Rc.No. A6/ITDA/RoFR/354/SRLIP/2017, Dt.09.11.2017 has issued RoFR certificate in **Form-I** (for Linear Projects) certifying that the complete process for identification and settlement of rights under FRA has

been carried out for the entire 212.9534 Ha of forest area. The resolutions of Division Level Committee and Sub – Divisional level Committee and the Gram Panchayath are enclosed. The UA ha to make the payment for RoFR claimants as per R&R policy of the Government and as per the R&R package prepared by District Collector, Bhadradi Kothagudem District. The User Agency has furnished undertaking to make payments to the RoFR claimants as per the R&R package approved by the District Collector, Bhadradi Kothagudem District.

**The details of site inspection report of FDO, Manuguru (enclosed):**

The details of my observations in the field inspection of the forest area proposed for diversion are furnished below.

- The site inspection was conducted on 28.10.2017 and 02.11.2017 and test checked the boundary demarcation at stations of proposed for Diversion.
- The forest area proposed for diversion of 212.9534 Ha consists of 175.8086 ha for canals, 5.2469 ha for Distribution, 31.8979 ha for power lines.
- It is observed that the majority of the proposed area is falling in Nellipaka-B, Kistasagar and Chinthiriyala blocks with Medium Dense and miscellaneous mixed forest with canopy density of about 0.1 to 0.6.
- The proposed Forest area for diversion is interspersed with RoFR titles and encroachments and the details are furnished in the Field inspection Notes.
- The alignment is passing through the middle of the forests at certain reaches and fragmenting the forest areas.
- The movement of wildlife is evidenced at some places and the construction of the project may cause disturbance to the wildlife. Hence, detailed Wildlife conservation Plan is prepared for an amount of Rs 83.216 Lakhs and enclosed.
- Eco-bridge at 17.733188<sup>0</sup> N, 80.822569<sup>0</sup> E Kistasagar Beat of Kistasagar RF of Ashwapuram Range is proposed for movement of wildlife.
- UA shall construct 12 CM/CD structures across the canal for movement of wildlife
- A detailed **CAT plan** is prepared for an amount of Rs.49.07329Lakhs to minimize the soil erosion, for protection of remnant blocks duly proposing the appropriate works and scheme is enclosed.
- Scheme for raising canal bank plantations has been prepared for an amount of Rs.46.07229 Lakhs to stabilize the canal banks and scheme is enclosed.
- Total enumeration is taken up and there are 35498 trees including 974 trees of < 30 cm in girth. The details are as follows:

Beat	Compt.	Area ha	Enumeration of trees					
			Teak (No's)	Teak (in cum)	Non Teak (No's)	Non Teak (in Cum)	EP (No's)	EP (in Cum)
<b>Ashwapuram Range</b>								
Chinthiriyala	176	10.3922	0	0	18	23.4365	0	
Mondikunta	207 & 208	31.5881	12	1.5713	1061	516.1030	11414	404.8511
Satyanarayanapuram	209	60.0171	2	0.0389	1248	374.0368	29	2.8791
Kistasagar	218 & 219	73.5576	257	9.4835	5796	1733.0082	4398	286.7395
Sandellapadu	227	37.3984	17	1.0647	1095	331.8632	10151	232.3286
	<b>Total</b>	<b>212.5934</b>	<b>288</b>	<b>12.1584</b>	<b>9218</b>	<b>2978.4477</b>	<b>25992</b>	<b>926.7983</b>

- The said proposed area for diversion does not form part of National Park, Wildlife Sanctuary, Biosphere reserve, Tiger reserve, Elephant Corridor etc.
- However, an extent of **202.5612 ha** Reserve Forest area is falling in notified ESZ of Kinnerasani Wildlife Sanctuary. Further non-forest area of **54.5542 ha** also falling in notified ESZ of Kinnerasani Wildlife Sanctuary. Separate proposals are submitted by the User Agency for clearance from National Board for Wildlife.
- 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.
- In the proposed area **51.1992 ha** is under plantations raised under various schemes in different years. For the loss of the plantations CA scheme for raising of plantations with 10 years of maintenance in 52 ha in degraded forest land is prepared and enclosed.

**Compensatory Afforestation (NFL):**

As against the forest area of 212.9534 ha of proposed for diversion, User Agency has identified **112.699 ha** of non-forest land for compensatory afforestation in this division. The areas have been inspected along with the concerned forest Range Officer on 05.05.2017, 22.05.2017 and 07.06.2017 and only **100.642 ha** were found to be suitable for raising Compensatory Afforestation. The details are as follows:

Sl No	Mandal	Village	Survey No.	Area in Ha.	Area found suitable for CA	Remarks
1	Ashwapuram	Ashwapuram	400	115.727	98.00	Suitable for planting
2	Ashwapuram	Gondigudem	336	90.2045	90.2045	Suitable for planting
3	Ashwapuram	Nellipaka	997	17.6429	17.6429	Suitable for planting
4	Ashwapuram	Thummala Cheruvu	71	19.5303	19.5303	Suitable for planting
5	Ashwapuram	Amerdha	127/1	35.3751	23.31	Natural growth existing in this site. Hence SMC works proposed.
<b>Total</b>				<b>278.4798 Acres or 112.699 Ha</b>	<b>248.6877 Acres or 100.642 Ha.</b>	

- The proposed Compensatory Afforestation lands are suitable for planting except one site which is having natural growth. The soil is of mostly red morram and degraded with continuous erosion. Hence a special CA scheme is prepared for an amount of **Rs.790.18790** Lakhs is required to raise good plantations along with protection of area from erosion and taking up required SMC works.
- As the areas are isolated with a small patches, with lot of biotic pressure from adjoining villages and there is every possibility of encroachment of this land for agriculture or for quarry or for any. Hence suitable protection measures are needed from biotic pressure and encroachment. Hence chain link fence is proposed all around the boundary of the CA area.
- In addition to the above non-forest CA land, an area of 160 ha is also proposed for CA in degraded forest land in Manuguru division to meet the requirement of planting 1000 plants/ ha

(SMM) of forest land diverted for the Project. Further, to compensate the loss of plantations raised under various schemes in different years in an area of 51.1992 ha in Compt. Nos. 176 of Chinthiryala RF, 207,208, 209 of Nellipaka-B RF and 218. 227 of Kistasagar RFs of Ashwapuram Range of Manuguru Division, CA is proposed in an area of 52 ha in degraded forest land. Hence the total area proposed for CA in DFL is 212 Ha.

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

Sl. No.	Range	RF	Compartment	Area in Ha
1	Ashwapuram	Chinthiryala	175	10
2	Bayyaram	Kondaigudem	66	50
3	Bayyaram	Janampeta	27	50
4	Bayyaram	Janampeta	16	50
5	Ashwapuram	Nellipaka-B	209	52
<b>Total</b>				<b>212</b>

**The financial outlay of the CA scheme is Rs.790.18790 Lakhs in NFL and Rs.1386.17378 Lakhs in DFL and the CA Schemes are enclosed.**

**The FDO, Manuguru has recommended the Project in Part II with the following observations and conditions:**

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 12 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. One Eco-Bridges to be constructed by User Agency across the canal with a width of 20 m each for facilitate free passage of Bisons and other ungulates in Kistasagar RF of Ashwapuram Range at approx. 17.733188<sup>0</sup> N, 80.822569<sup>0</sup> E in Kistasagar beat.
- vi. 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.

### III. General Note of District Forest Officer, Bhadradi Kothagudem:

#### 1) Gist of the Project:

- The Sita Rama Lift Irrigation Scheme is contemplated to cover the Khammam, Bhadradi-Kothagudem and Mahabubabad Districts, with a command area of 3,28,853 Acres as new ayacut and Stabilization of existing ayacut about 3,45,534 Acres.
- The Sita Rama Lift irrigation Project is proposed to draw water from Godavari River (R/S) U/S of existing Dummugudem Anicut to draw 70.4 TMC of water from River Godavari through an approach channel of CBL El.+45 m.
- The Water will be drawn through approach Chanel from River Godavari by constructing Head Regulator at Dummugudem Anicut then Gravity channel starts from Head Regulator. It consists of gravity canal, four pump houses Lift systems, Tunnels and Distributary Networks.
- The SRLIP alignment starts from Manuguru division, cut through Paloncha and Kothagudem divisions of Bhadradi Kothagudem District before entering into the Sathupally and Khammam divisions of Khammam District.
- In Manuguru division, it enters in Chinthiryala Beat of Chinthiryala RF of Ashwapuram Range i.e., at 7.385 km stone and exit Chinthiryala beat at 7.665 km stone and re-enters in Mondikunta of Nellipaka-B forest at 15.05 km stone and exits the Manuguru Division at 24.05 km stone in Sandellapdu Beat of Kistasagar RF of Ashwapuram Range of Manuguru Division. In between one Surge Pool and one Pump House are proposed in Pattalands.
  - One Distributary Canal is there in Compartment No.209 of Satyanarayanapuram Beat to a length of 1.069 km.
  - The Power line alignment is flanked on the eastern side of the canal from 15.05 Km stone to 24.05 km stone.
  - Total length of canal passing through Manuguru Division is 24.05 km. Out of which, 8.3 km length in Reserve Forest area of Manuguru Division.
- Thereafter the main canal enters into Paloncha Division continuing from 57.075 km milestone to 62.00 km milestone, outside the notified forest, after that the alignment enters into Kothagudem forest Division and runs towards Rollapadu.
  - Sub-canal-1 starting from 0 milestone (at 57.075 km milestone) and passes up to 4.50 km milestone up to Lingasamudram gravity canal.
  - Sub-canal-2 starting from 0 milestone (at 57.075 km milestone) and reaches upto 7.00 m milestone, after that moves into Kothagudem and Sathupally Divisions, there after canals enter into the Dammapeta Range of Paloncha Division at milestone No.37.55 and ends at milestone No.42.00 (**pump house**) there after further divided into (3) sub canals. The details are as follows:

- i. Sub-canal-1 Bethupally sub-canal starting from 0 milestone (at 42.00 km milestone) and reaches upto 12.95 km milestone.
  - ii. Sub-canal-2 Dammapeta sub-canal starting from 0 milestone (at 42.00 km milestone) and reaches upto 15.12 km milestone.
  - iii. Sub-canal-3 Palavagu sub-canal starting from 0 milestone (at 42.00 km milestone) and reaches upto 13.50 km milestone and then divided into (2) sub canals one is Vinayakapuram canal from 0 milestone to 23.85 km milestone, and the other one is Gollagudem canal, starting from 0 milestone to 18.375 km milestone in Dammapeta Range.
  - iv. **Total length of alignment passing through Paloncha Division is 46.12 km.**
- Thereafter the Main Canal enters into the **Kothagudem Division** in Penagalapa RF in Marrigudem Beat of of Ramavaram Range i.e, at km 66.650 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 reenters 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 reenters the forest land in Kanakagiri RF in N.B.Bodu Beat of Julurupadu Range at km 91.420 and exit at km 92.325 and reenters 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 km 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 reenters 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 said proposed area for diversion **does not form part of** National Park, Wildlife Sanctuary, Biosphere reserve, Tiger reserve, Elephant Corridor etc. However, an extent of 275.4400 ha is falling in notified Eco-Sensitive Zone of Kinnerasani Wildlife Sanctuary. Separate proposals are submitted by the User Agency for clearance from National Board for Wildlife. including 167.5191 ha of non-forest land falling in notified ESZ.
  - 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 vegetation is of good forest with natural generation of misc species with Tiruman, Pala Kodisa, Tuniki, Tani, Yegisa, Jitregi, Maddi, Ippa, Gumpena, Chennangi, Karangi, Duddi, Teak, Chilla, Chinduga, Pachare, Naravepa, Buruga, Rathangi, etc., and canopy density as shown above.
- The fauna found in the proposed area are Spotted Deer, Sambar, Chinkara, Nilgai, Bison, Wild Boar, Rabbit, Avian fauna, Porcupine, Snakes, Lizards etc..

2) The details of the **Notified forest areas proposed for diversion** falling in Kothagudem, Manuguru and Paloncha divisions of Bhadradri-Kothagudem District are furnished below:

Division	Notified forest area proposed for diversion in ha	
	Proposed by User Agency	Area confirmed by FDOs
Kothagudem	418.3756	369.0922
Manuguru	212.9534	212.9534
Paloncha	640.906	618.9571
<b>Total</b>	<b>1272.2350</b>	<b>1201.0027</b>

3) **Purpose of diversion of Notified forest for SRLIP falling in Bhadradri Kothagudem:**

S. No.	Component	Palvancha Area in ha	Manuguru Area in ha	Kothagudem Area in ha	Total Area in ha
1	Pressure main	38.9844			<b>38.9844</b>
2	Gravity Canals and CM/CD works	521.2056			<b>521.2056</b>
3	Power line 1 of 220 KV line.	37.4095	31.8979	10.7796	<b>80.087</b>
4	Power line 2 of 400 KV line	21.3576	0		<b>21.3576</b>
5	Gravity Canal		175.8086	354.9956	<b>530.8042</b>
6	Distributary		5.2469	3.317	<b>8.5639</b>
	<b>Total:</b>	<b>618.9571</b>	<b>212.9534</b>	<b>369.0922</b>	<b>1201.003</b>

4) The vegetation canopy density of the proposed forest area for diversion is furnished below:

Density Class	Manuguru (in ha)	Paloncha (in ha)	Kothagudem (in ha)	Area in Ha
Density < 0.4	201.9184	39.7379	13.9249	255.5812
Density > 0.4-0.7	11.035	579.2192	355.1673	945.4215
<b>Total</b>	<b>212.9534</b>	<b>618.9571</b>	<b>369.0922</b>	<b>1201.0027</b>

5) The total extent of Forest area required for diversion for the purpose of SRLIP is 1531.0548 ha (revised from 1602.2871 ha). Of which 1201.0027 Ha area is notified reserve forest area falls within the jurisdiction of Bhadradri-Kothagudem district, including 275.4400 ha falling in notified Eco Sensitive Zone (ESZ) of Kinnerasani Wild Life Sanctuary.

6) Number of trees falling within the alignment are furnished below:

Division	Area ha	Enumeration of trees					
		Teak (No's)	Teak (in cum)	Non Teak (No's)	Non Teak (in Cum)	EP (No's)	EP (in Cum)
Manuguru	212.5934	288	12.1584	9218	2978.45	25992	926.798
Palvancha	618.9571	3196	110.559	54300	8262.56	0	0
Kothagudem	369.0922	55	1.621	55801	1527.8	0	0
<b>Total:</b>	<b>1200.6427</b>	<b>3539</b>	<b>124.3381</b>	<b>119319</b>	<b>12768.79</b>	<b>25992</b>	<b>926.7983</b>

7) Table showing the details of Non forest CA lands accepted for compensatory afforestation in Bhadradi Kothagudem District in lieu of diversion:

Division	Non-forest CA lands
	Area in ha
Yellandu	33.506
Bhadrachalam	363.635
Manuguru	100.642
Paloncha	605.358
<b>Total</b>	<b>1103.141</b>

8) Table showing the details of Degraded forest lands identified for Compensatory afforestation in addition to the non-forest CA lands to meet the requirement of planting 1000 plants/ ha of forest land diverted:

Name of the Division	Degraded forest Lands (Area in Ha)
Yellandu	35.00
Bhadrachalam	200.00
Manuguru	160.00
Paloncha	440.00
Kinnerasani WLS	100.00
Kothagudem	175.00
<b>Total</b>	<b>1110.00</b>

9) Description of the loss of the plantations due to SRLIP:

An extent of 13.65 Ha, 55 Ha and 51.099 Ha in Manuguru, Kothagudem and Paloncha divisions respectively are of recent plantations raised by forest department under various schemes falling within the alignment of SRLP and will be lost. The UA has to pay the cost of raising and maintenance of plantation in degraded forest land for the loss of plantations. Accordingly, it is proposed to raise plantations in DFL in an area of 14 ha, 55 ha and 52 ha respectively in Manuguru, Kothagudem and Paloncha divisions and the CA scheme has been prepared.

**The details of the TSFDC Plantations falling in the alignment of the SRLIP:**

Sl. No.	Name of TSFDC Division	Ref. No. & Date	Area of Loss in Ha and Financial loss in Rs.
1.	Sathupally	SRLIP/DM/SPL/ 2017-18, Dt:06.11.2017	<b>24.40 Ha</b> (38497 trees) of Bamboo + Eucalyptus plantations <b>Rs.26893474/-</b>
2.	Kothagudem	SRLIP/DM/PAL/ 2017-18, Dt:06.11.2017	<b>27.55 Ha</b> (44276 trees) of Bamboo + Eucalyptus plantations <b>Rs.61970987/-</b>
3.	Paloncha	SRLIP/DM/PAL/ 2017-18, Dt:06.11.2017	<b>45.31 Ha</b> (48397 trees ) of Bamboo + Eucalyptus plantations <b>Rs.98524451/-</b>
<b>Total TSFDC loss of area and financial loss in Rs.</b>			<b>97.26 Ha</b> <b>Rs.18,73,88,912/-</b>

The UA has to make payment for the loss of plantations to TSFDC.

**10) Tallying sheet of Compensatory afforestation proposed in lieu of diversion of forest area:**

Division	Plants to be planted (@1000/Ha )			Planting plan proposed									Total Plants - NFL+DFL
	Area proposed for diversion			Planting in Non-forest CA lands(NFL)					Planting in Degraded forest areas(DFL)				
	Proposed	Final	Number of Plants to be planted as per MoEF Guidelines	Area in ha.	Suitable area in ha.	Plants/ha.	Total plants	Method	Area in ha.	Plants/ha.	Total		
Yellandu				33.506	0.000	0	0	Gap	35.00	1111	38885	38885	
Bhadrachalam				363.635	363.635	200	72727	BHA	200.00	1111	222200	294927	
Manuguru	212.9534	212.9534	212953	100.642	39.666	1666	66084	SMM	160.00	1111	177760	243844	
					50.340	400	20136	LI				20136	
Paloncha	640.906	618.9571	618957	605.358	0.000	0	0		440.00	1111	488840	488840	
Kinnerasani WLS	0			0.000	0.000	0	0		100.00	1111	111100	111100	
Kothagudem	418.3756	369.0922	369092	0.000	0.000	0	0		175.00	1111	194425	194425	
<b>Total</b>	<b>1272.235</b>	<b>1201.0027</b>	<b>1201002</b>	<b>1103.141</b>	<b>453.641</b>		<b>158947</b>		<b>1110.00</b>		<b>1233210</b>	<b>1392157</b>	

Number of Plants to be planted as per MoEF Guidelines

1201002

Planting plan proposed in NFL and DFL

1392157

**11) Financial statement of various proposed schemes proposed (Rs.in Lakhs):**

S.No	Division	CA NFL (Rs.in lakhs)	CA DFL (Rs.in lakhs)	CAT (Rs.in lakhs)	WL (Rs.in lakhs)	Translocation of regeneration plants from canal alignment (Rs.in lakhs)	Canal Bank plantations (Rs.in lakhs)	Total (Rs.in lakhs)
1	Yellandu	54.28757	217.49138	0	0.00	0.00	0	271.77895
2	Bhadrachalam	1603.03261	1256.07224	0	0.00	0.00	0	2859.10485
3	Manuguru	816.03752	1386.17378	49.07329	83.21602	0.00	46.07229	2380.5729
4	Paloncha	898.147	3199.75956	133.03159	98.37242	12.24327	331.77632	4673.33016
5	Kinnerasani WLS	0	617.08239	0	0.00	0.00	0.00	617.08239
6	Kothagudem	0	1423.60059	68.57909	81.03897	0.00	125.18623	1698.40488
	<b>Total</b>	<b>3371.5047</b>	<b>8100.1799</b>	<b>250.68397</b>	<b>262.6274</b>	<b>12.24327</b>	<b>503.03484</b>	<b>12500.2741</b>

12) Table showing the details of the RoFR Titles falling within the alignment in Bhadradri Kothagudem.

Division	Area_Ha	Landuse/ Land cover (in Ha)				Number of RoFR Title holders
		Plantn	RoFR	Encr	Forest	
Palvancha	618.9571	13.65	70.22515	65.1789	469.90305	130
Manuguru	212.9534	51.1992	15.1588	71.0979	75.4975	27
Kothagudem	369.0922	55.00	52.347	94.389	167.356	92
<b>Total:</b>	<b>1201.0027</b>	<b>119.8492</b>	<b>137.73095</b>	<b>230.6658</b>	<b>712.75655</b>	<b>249</b>

The User Agency (Chief Engineer, Irrigation) has furnished under taking to make payment/ compensation as per the R&R plan prepared by District Collector, Bhadradri Kothagudem and as per the prevalent R&R Policy of the Government.

- 13) **Vulnerability of Forest area to erosion due to diversion:** Most of the forest area is passing through the plains and around 20% of the area is passing through the hillocks. Due to the project the stability of the canal side of the hillocks will be affected and become vulnerable to erosion and this will cause erosion of the forest land on one side and on the other side may damage the canals. In view of the above, separate Catchment Area Treatment Plan (CAT) is prepared by including all the treatments necessary to minimize the ill affects due to diversion for SRLP on the hillocks through which the projects passes with an estimated amount of Rs 68.57909 Lakhs in Kothagudem, Rs 133.03159 Lakhs in Paloncha and Rs.49.07329 Lakhs in Manuguru division.
- 14) **Wildlife Conservation Plan:** The movement of wildlife is evidenced at some places and the construction of the project may cause disturbance to the wildlife. Hence, detailed *Wildlife conservation Plans* are prepared with an amount of Rs 98.372 Lakhs for Paloncha , Rs 83.216 Lakhs for Manuguru and Rs 81.03897 Lakhs for Kothagudem division and the plans are enclosed.
- 15) **Eco-bridges:** Eco-Bridges are proposed at various places to ensure the free movement of the wildlife from one side to another side of the canal across the forest. In Paloncha division, Eco-bridges (2 Nos) at 17.410798<sup>0</sup> N & 80.984627<sup>0</sup> E and 17.39006<sup>0</sup> N & 81.006893<sup>0</sup> E are proposed for movement of wildlife. Similarly, in Manuguru division, Eco-bridge at 17.733188<sup>0</sup> N, 80.822569<sup>0</sup> E Kistasagar Beat of Kistasagar RF of Ashwapuram Range is proposed for movement of wildlife.
- 16) **CM/CD Structures:** UA shall construct CM/CD structures across the canal for movement of wildlife in 39 in Paloncha division, 12 CM/CD structures in Manuguru division and 39 in Kothagudem division.
- 17) **Canal Bank Plantations:** Due to the diversion for SRLP, the adjacent forest areas along the canal will become vulnerable for degradation due to various factors. Hence a separate Scheme is proposed for raising canal bank plantations along the canal with an estimated amount of

Rs.331.77632 Lakhs in Paloncha division, Rs.46.07229 Lakhs in Manuguru division.  
Rs.125.18623 Lakhs  
Rs.331.77632 Lakhs in Kothagudem division.

The said proposals have been duly processed as per the Forest (Conservation) Act,1980, the Rules and amendments issued therein and the instructions of Prl. Chief Conservator of Forests (HoFF), T.S., Hyderabad issued time to time in this regard. The above received proposals vide references 2<sup>nd</sup> to 7<sup>th</sup> cited are submitted in (5) sets for each Division along with mandatory information / certificates for further processing under Forest Conservation Act, 1980.

Encl: (As above).

Yours faithfully,

District Forest Officer,  
Bhadradi Kothagudem District.

Copy submitted to Prl. Chief Conservator of Forests (HoFF), T.S., Hyderabad for favour of information.

Copy to all the Forest Divisional Officers of Bhadradi Kothagudem District for information.

Copy to Chief Engineer, Sita Rama Lift Irrigation Project, Khammam for information.

District Forest Officer,  
Bhadradi Kothagudem District