

**GOVERNMENT OF TELANGANA
FOREST DEPARTMENT**

From
Ch. Prakash Rao. Dy. CF
Forest Divisional Officer,
Khammam.

To
The District Forest Officer,
Khammam District
KHAMMAM.

Ref.No. SRLIP/2017/S3, Dated: 23.11.2017

Sir,

Sub: TSFD – Forest (Conservation) Act, 1980 – Proposal for diversion of **1531.0548 ha (revised from 1602.2871 ha)** of forest land in 5 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 – **Khammam Division - Proposals Submitted** Regarding.

Ref: 1. PCCF's Ref.No.9000/2017/FCA-1, Dated: 20.10.2017

••<@>••

Kind attention is invited to the references cited.

In the reference 1st cited above the proposal for diversion of **1531.0548 ha (revised from 1602.2871 ha)** of forest land in 5 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 have been forwarded for processing the proposals under Forest (Conservation) Act 1980 and out of which for diversion of **52.6488** of forest land pertains to Khammam Division.

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 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 Distributary Networks.
- Total cost of the project is **Rs. 13263.860 Cr.**
- Total Project works proposed are 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 1531.0548 ha (revised from 1602.2871 ha). Out of which **275.4400 ha** is falling in notified Eco Sensitive Zone (ESZ) of Kinnerasani Wild Life Sanctuary.
- 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.
- The ETS & DGPS/ GNSS Survey for the forest areas proposed for diversion has been carried out, authenticated by forest department and same are overlaid on the SOI topomaps and furnished along with the

proposals.

- **1983.2943 ha** of Non-forest CA lands have been identified to handover to the forest department for raising compensatory afforestation.
- This Project proposal **doesn't involve any places of historical, religious, archaeological, recreational importance.**
- No work in violation under Forest (Conservation) Act, 1980 has been carried out.
- Justification for locating the project in the forest area enclosed.
- 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.

II. The following information is submitted in Part-II and Site Inspection Report.

The above said proposals were forwarded to the Forest Range Officer, Karepally having jurisdiction over the forest area, for processing under Forest (Conservation) Act, 1980 and the relevant rules and guidelines issued by GoI from time to time. The Forest Range Officer, Karepally has inspected the areas proposed for diversion, enumerated the tree growth and submitted the relevant information/documents to be enclosed to the proposals.

The field inspection of the proposed area was conducted along with the concerned officials of the User Agency and enumeration test checked on **01.11.2017, 02.11.2017 and 13.11.2017**. The requirement of the land in **Khammam** Division by User Agency is **52.6488 ha** and there is no deviation.

Sl. No.	Range	Patch No.	Beat.	Proposed Forest Area in Ha
1	2	3	4	5
1	Karepally	49	Cheemalapadu	33.0157
2	Karepally	60	Cheemalapadu	5.6746
3	Karepally	42	Cheemalapadu	12.0085
4	Karepally	50	Cheemalapadu	1.9500
TOTAL:				52.6488

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

S. No	Component	Area in Ha.
1	Open Canal - I	5.6746
2	Tunnel	1.950
3	Open Canal - II	33.0157
4	Power Line	12.0085
	Total	52.6488

S.No	Component	Area in Ha.	Remarks.
1	Pressure main	Nil	
2	Gravity Canals and CM/CD works - 2 Nos	38.6903	
3	Power line 1 of 220 kV line.	12.0085	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	Nil	
5	Tunnel	1.950	
6	Distributary	Nil	
	Total	52.6488	

- The area proposed for diversion for excavation of canal and tunnel is passing through middle of the **Cheemalapadu reserve forest of Karepally range, The terrain is undulating, which is moderately vulnerable to erosion.**
- **The legal status of the said forest area proposed is as follows for diversion:**
 - Area 38.092 ha of Compartment No.29 of Cheemalapadu Beat in Cheemalapadu R.F, notified U/s.7, 7 and published in Govt., Gazette No. 1, Dt: 6-1-1347 F and U/s 10 published in Govt., Gazette No. 46, Dt; 4-8-1347 F.
 - Area 5.4231 of Compartment No.28 of Cheemalapadu Beat in Cheemalapadu R.F, notified U/s.7, 7 and published in Govt., Gazette No. 1, Dt: 6-1-1347 F and U/s 10 published in Govt., Gazette No. 46, Dt; 4-8-1347 F.
 - Area 9.1336 of Compartment No.27/2 of Cheemalapadu Beat in Cheemalapadu R.F, notified U/s.7, 7 and published in Govt., Gazette No. 1, Dt: 6-1-1347 F and U/s 10 published in Govt., Gazette No. 46, Dt; 4-8-1347 F.
- The Proposed Canal and tunnel are passing through the middle of forest with boundary of the forest at a distance of 0 to 2.9 Kms.
- The forests are Tropical Dry Deciduous Forests with 0.1 to 0.7 canopy density. The density break-up of 52.6488 Ha is given below:

Density Class	Area in ha
0.7 and above	0.2122
0.4 to 0.7	0.0829
<0.4	52.3537
Total	52.6488

- 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 Tiruman, Pala Kodisa, Tuniki, Tani, Yegisa, Jitregi, Maddi, Ippa, Gumpena, Chennangi, Karangi, Duddi, Teak, Chilla, Chinduga, Bamboo etc. and canopy density varying from 0.1 to 0.8 as shown above.
- The fauna found in the proposed area are Spotted deer, Chinkara, Nilgai, Wild Boar, Hare, Painted stork, Peafowl, Porcupine, Python, Monitor lizard, etc.
- Enumeration of Tree Growth:** The total enumeration of tree growth was taken up. The yield particulars of tree growth enumeration for **24705** trees, **890** poles and as per the report submitted by the Forest Range Officer, Karepally are as follows:

Beat	Patch No	Compt	Area_ha	Enumeration of trees			
				Teak (No's)	Teak (Vol in cum)	Non Teak (No's)	Non Teak (Vol in cum)
Cheemalapadu	42	27/2, 28, 29	12.0085	59	1.9373	1928	120.4861
Cheemalapadu	49	29	33.0157	0	0	1512	72.6983
Cheemalapadu	50	27/2, 28	1.95	84	2.625	16307	569.249
Cheemalapadu	60	27/2	5.6746	5	0.0271	4810	88.0353
		Total	52.6488	148	4.5894	24557	850.4687

- 16391 trees enumerated over the tunnel portion shall be retained (84 Teak with 2.625 CMT and 16307 Non-Teak trees with 569249 CMT)
- 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 ^{F(16)}14 (no. of claims in ^{T(31.00)}36.970 acres under RoFR Act in the proposed areas for diversion. The Collector, **Khammam District** vide Rc.No. A6/RoFR/ITDA/354/SRLIP/2017, Dt: 30.10.2017 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 52.6488 Ha of forest area**. The resolutions of District 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 Khammam.

Total (30) no. of claims in 67-970 acres Page 6 of 10

The details of site inspection report (enclosed):

- The forest area proposed for diversion of 52.6488. ha consists of 38.69 ha for canals, 1.95 ha for tunnels, 12.009 ha for power lines.
- The site inspection was conducted on 01.11.2017, 02.11.2017 and 13.11.2017 and test checked the boundary demarcation at stations of proposed for diversion.
- It is observed that the majority of the proposed area is falling in Cheemalapadu forest block with dense and open miscellaneous mixed forest with canopy density of about 0.1 to 0.8.
- The alignment is passing through middle of the forests at certain reaches and fragmenting the forest areas.
- Movement of wildlife is seen at places and there may be disturbance to the wildlife. Hence, detailed **Wildlife conservation Plan** is prepared for an amount of **Rs 59.112** lakhs and enclosed.
- UA shall construct 2 Nos CM/CD structures as proposed in the project for movement of wildlife as per specifications given in Part – II.
- Scheme for raising has been prepared for an amount of **Rs.16.17820 Lakhs** to stabilize the **canal banks** and enclosed.
- Total enumeration is taken up and there are 24705 trees including 18193 No of trees of < 30 cm in girth. The details are as follows:

Beat	Patch No	Compt	Area_ha	Enumeration of trees			
				Teak (No's)	Teak (Vol in cum)	Non Teak (No's)	Non Teak (Vol in cum)
Cheemalapadu	42	27/2, 28, 29	12.0085	59	1.9373	1928	120.4861
Cheemalapadu	49	29	33.0157	0	0	1512	72.6983
Cheemalapadu	50	27/2, 28	1.95	84	2.625	16307	569.249
Cheemalapadu	60	27/2	5.6746	5	0.0271	4810	88.0353
		Total	52.6488	148	4.5894	24557	850.4687

- The 16391 no of trees enumerated over the tunnel shall be retained.
- **Compensatory Afforestation:** As against the forest land proposed for diversion, User Agency has identified 186.368 ha of non-forest land for compensatory afforestation in this division. The areas have been inspected along with the concerned Forest Range Officers on 02.08.2017, 03.08.2017 and 04.08.2017 and only 186.368 ha were found to be suitable for raising Compensatory Afforestation out of 230.535 Ha.

The details are as follows:

Sl No	Mandal	Village	Survey No.	Area in Ha.	Area found suitable for CA	Remarks
1	Kamepally	Mucherla-1	52	77.767	33.60	Reduced area due to encroachments
2	Raghunadhapalem	Erlapudi-A	52	6.649	6.649	
3	Raghunadhapalem	Erlapudi-B	52	7.324	7.324	
4	Raghunadhapalem	Erlapudi-C	52	48.881	48.881	
5	Khammam Rural	Kasirajugudem nallagutta-1	94	9.364	9.364	
6	Khammam Rural	Teldharpalli-1	205	6.115	6.115	
7	Khammam Rural	Teldharpalli-2	569	7.146	7.146	
8	Khammam Rural	Are Kodu	36	7.799	7.799	
9	Tirumalayapalem	Tirumalayapalem-Puligutta	169	7.297	7.297	
10	Madhira	Rompinalla	-	23.013	23.013	
11	Madhira	Yendepalli	61	10.262	10.262	
12	Yerrupalem	Choppakatlalalem	58	18.918	18.918	
			Total	230.535	186.368	

The non-forest CA lands area mostly the type of soil generally is Red Soil, Rocky Soil and Gravel Red Soil, Red & Brown Red loamy Soil. The land is with moderate tree growth Pebbled stony-sloppy, undulating and covered with Nemilinaru, Seethapal, Palakodisha, Rela, NallaKodisha, Moduga, Vepa & Pachari and miscellaneous vegetation. The area consists of gullies, boulders, rocks and best suited for wildlife such as peafowl, wild boars etc. The areas proposed for taking over for C.A. are having moderate tree growth and planting is proposed in the blanks of 186.368 ha proposed to be taken over. In the areas where forest growth is existing, activities like singling and coppicing for Assisted Natural Regeneration will be taken up. Major thrust is required for development of Soil and Moisture retention capacity in the area. Soil & Moisture conservation works and formation of Water harvesting structures shall be taken up during the 1st & 2nd years of the project to gain the impact of such structures over the vegetation growth in the proposed area. The land mentioned above is free from all sorts of encumbrances and encroachments.

Accordingly, keeping in view of the suitability of land, a plan is prepared for growing of successful miscellaneous plantations in the CA areas to compensate the part of diverted forest land with a financial outlay of **Rs 923.65003 Lakhs** in non-forest CA lands and is submitted.

The financial outlay of the CA scheme is Rs..923.65003 Lakhs in NFL the CA Scheme is enclosed.


Recommendation:

- Project proposal is useful to the people of Telangana for improving the irrigation facilities to their Agricultural fields, stabilizing the existing ayacut of Major, Medium and Minor Irrigation projects and also to cater to the needs of drinking water and industrial requirements.
- The proposals in Part II are recommended subject to the fulfillment to the following conditions:
 - i The user agency shall provide funds for installing security gates/ barricades at entry & exit of the canal in forest areas and other locations as specified by the forest department.
 - ii Proposed Cross Masonry & Cross Drainage (CM&CD) structures at two 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 shall 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 implementation of mitigative measures in wildlife conservation plan as proposed by Forest Department.
 - v Funds for stabilization of the banks over a length of 2.90 km after releasing the canal into natural streams in Cheemalapadu notified RF, till it leaves the RF. Canal bank plantations shall be taken up by the Forest Department at the cost of the User Agency for a length of 2.90 km on both sides.

The processed proposals in Part II along with Site inspection reports, CA scheme, NFL Plan, Wildlife Conservation Plan Scheme with Map, Canal Bank Plantations Plan Scheme with MAP, RoFR certificates etc. and mandatory documents are enclosed herewith for onward submission for obtaining the approvals under Forest (Conservation) Act, 1980.


Encl: As above

Yours faithfully,


Forest Divisional Officer,
Khammam.

Copy submitted to the Chief Conservator of Forests, Khammam Circle, Khammam, for favour of kind information.

Copy submitted to the Principal Chief Conservator of Forests (HoFF), TSFD, Telangana State, Hyderabad for information and necessary action.


Forest Divisional Officer,
Khammam.


District Forest Officer
Khammam District


Chief Conservator of Forests/
(FAC) Conservator of Forests,
Khammam Circle, Khammam.