

**GOVERNMENT OF TELANGANA
FOREST DEPARTMENT**

From,
Smt. R.Sobha, IFS,
Principal Chief Conservator of Forests
(Head of Forest Force) (FAC),
Telangana State, "Aranya Bhavan",
Saifabad, Hyderabad.

To,
The Principal Chief Secretary to Government,
Environment, Forests, Science & Technology
Department,
Telangana State, Aranya Bhavan
Saifabad, Hyderabad - 500004

Ref.No.6564/2017/FCA-1 Dated:29.06.2020

Sir,

Sub: TSFD – Forest (Conservation) Act, 1980 – Proposal for diversion of **409.53 Ha** (387.13 ha Horizontal area as per ETS & DGPS survey) offorest land in Keshavapur RF, Medchal-Malkajgiri District for Construction of 10 TMC reservoir at Keshavapuram with associated components under Godavari river source for drinking water requirements to the Hyderabad City in favour of HMWS&SB, Hyderabad - **Processed Proposal - Submitted** – Regarding.

- Ref:**
1. MD, HMWS&SB, Hyd. Lr.No. HMWSSB/MD/ Resr-Keshavapuram-20TMC/ Forest Land/ 2017-18/3164, Dt.15.04.2017 (incomplete proposals)
 2. PCCF's Rc.No.6564/2017/FCA1, Dt.26.04.2017 (procedure informed)
 3. DCF, Plantation Cell division, HMWS&SB, Hyd. Lr.No.DCF/ PCDn/ 17-18/ RF Diversion/ 06, Dt.28.06.2017 (ETS & DGPS/ DGNSS survey data of FL)
 4. PCCF's Rc.No.6564/2017/FCA1, Dt.18.07.2017 (authentication of data)
 5. Govt Memo No.4820/For.I(1)/2017, Dt.14.11.2017
 6. PCCF's Rc.No.6564/2017/FCA1, Dt.01.12.2017
 7. Managing Director, HMWS&SB, Hyderabad Lr.No.F1/8425/2018/ 99/1533, Dt.13.03.2018 (05.05.2018)
 8. PCCF's Rc.No.6564/2017/FCA1, Dt.07.04.2018 (letter to Government), 10.05.2018 (letter to MD, HMWS&SB)
 9. Govt Memo No.2601/For.I(1)/2018, Dt.05.07.2018
 10. PCCF's Rc.No.6564/2017/FCA1, Dt.12.07.2018
 11. Deputy Conservator of Forests, Plantation Cell Division, HMWS&SB, Hyderabad Lr.No.DCF, PCDn/18-19/R.F Diversion/07, Dt.04.07.2018 (ETS & DGPS/ DGNSS survey data of FL)
 12. PCCF's Rc.No.6564/2017/FCA1, Dt.02.08.2018(authentication of data)
 13. G.O.Ms.No.165 Revenue (ASSN.I) Dept., Dt.14.08.2018 (CA land)
 14. PCCF's Rc.No.6564/2017/FCA1, Dt.17.09.2018
 15. General Manager (Engg) Project Division No.IX, HMWS&SB, Hyderabad Lr.No.GM(E)/DB/P.Dn-IX/Keshavapuram/2018-19/155, Dt.10.10.2018(revised proposals).
 16. PCCF's Rc.No.6564/2017/FCA1, Dt.06.11.2018 (forwarding of proposals)
 17. PCCF's Rc.No.6564/2017/FCA1, Dt.28.12.2018 (letter to MD, HMWS&SB).
 18. Managing Director, HMWS&SB, Hyderabad Lr.No.MD/HMWSSB/ Keshvapuram reservoir/2018, Dt.27.12.2018.
 19. Dy.CF, Plantation Cell Division, HMWS&SB, Hyd. Lr.No.nil dated 02.01.2019 (ETS & DGPS/DGNSS survey data of CA lands)
 20. PCCF's Rc.No.6564/2017/FCA1, Dt.19.02.2019 (authentication of data)
 21. General Manager (Engg) Project Division No.IX, HMWS&SB, Hyderabad

- Lr.No.GM(E)/PDn-IX/K.puram/2018-19/190, Dt.14.02.2019
22. PCCF's Rc.No.6564/2017/FCA1, Dt.19.02.2019
 23. PCCF's Rc.No.6564/2017/FCA1, Dt.13.03.2019 (letter to GM)
 24. DCF, Plantation Cell Division, HMWS&SB, Hyd. Lr.No.nil, Dt.30.03.2019 (ETS & DGPS/ DGNSS survey data of CA lands)
 25. PCCF's Rc.No.6564/2017/FCA1, Dt.04.05.2019 (authentication of data), 08.05.2019
 26. Govt Memo No.2454/For.I(1)/2019 EFS&T (For.I) Dept., Dt.08.07.2019
 27. PCCF's Rc.No.6564/2017/FCA1, Dt.16.07.2019 (letter to Government)
 28. General Manager (Engg) Project Division No.IX, HMWS&SB, Hyderabad Lr.No.GM(E)/DB/P.Dn-IX/Keshavapuram/2019-20/232, Dt.17.08.2019 (revised proposals).
 29. PCCF's Rc.No.6564/2017/FCA1, Dt.21.08.2019 (forwarding of proposals)
 30. Dy.CF, Plantation Cell Division, HMWS&SB, Hyd. Lr.No.nil, Dt.30.08.2019 (DGPS survey data of CA lands)
 31. PCCF, TS, HydRc.No. 6564/2017/FCA-1, Dt.26.09.2019 (authentication of data).
 32. General Manager (Engg) Project Division No.IX, HMWS&SB, Hyderabad Lr.No.GM(E)/DB/P.Dn-IX/Keshavapuram/2020-21/293, Dt.20.05.2020 (revised proposals).
 33. PCCF, TS, HydRc.No. 6564/2017/FCA-1, Dt.21.05.2020 (forwarding of proposals)
 34. Dy.CF, Plantation Cell Division, HMWS&SB, Hyd. Lr.No.nil, Dt.02.06.2020 (ETS & DGPS/ DGNSS survey data of CA lands)
 35. PCCF, TS, Hyd, Rc.No. 6564/2017/FCA-1, Dt.10.06.2020 (authentication of data).
 36. APCCF/CF, HC, HydRc.No. 1378/2018/M3, Dt:16.06.2020.
 37. Conservator of Forests, Medak, Rc.No.2717/2020/C3, Dt.29.06.2020
 38. District Forest Officer, Suryapet, Rc.No.1936/2018/S4, Dt.28.06.2020
 39. District Forest Officer, Yadadri-Bhuvanagiri, Rc.No.2092/2018/S5, dated. 29.06.2020.
 40. District Forest Officer, Bhadradi-Kothagudem, Rc.No.443/2020/D1, Dt:29.06.2020



It is submitted that the General Manager (Engg.), Project Division No.IX, HMWS&SB, Hyderabad (the User Agency) has submitted different proposals from time-to-time for diversion of forest land in Keshavapur RF, Medchal-Malkajgiri District under Forest (Conservation) Act, 1980 for Construction of 10 TMC reservoir at Keshavapuram with associated components under Godavari river source for drinking water requirements to the Hyderabad City in favour of HMWS&SB, Hyderabad; which have been forwarded to the District Forest Officer, Medchal-Malkajgiri and Additional Principal Chief Conservator of Forests, Hyderabad for processing under Forest (Conservation) Act, 1980, Forest (Conservation) Rules, 2003/2014, the guidelines, circulars and clarifications and amendments issued therein. The revised proposals to an extent 409.53 Ha (387.13 ha Horizontal area as per ETS&DGPS survey) have been furnished by the User Agency in ref 32nd cited above, which have been forwarded to the District Forest Officer, Medchal-Malkajgiri and Additional Principal Chief Conservator of Forests, Hyderabad, vide ref 33rd cited, for processing under Forest (Conservation) Act, 1980, Forest (Conservation) Rules, 2003/2014, the guidelines, circulars and clarifications and amendments issued therein.

The User Agency has identified the non-forest Compensatory Afforestation (CA-NFL) lands at different times to be handed over to the Forest Department in lieu of the forest land proposed for diversion and furnished the details for inspection and assessing the suitability of

CA lands for raising plantations, which have forwarded to the concerned DFOs for inspection and preparing the CA scheme for raising the plantation with 10 years of maintenance. The last non-forest CA lands have been identified in ref 34th cited and the DGPS survey data has been authenticated in ref 35th cited.

Accordingly, the Additional Principal Chief Conservator of Forests, Hyderabad, vide ref 36th cited has submitted processed proposal with his specific recommendation in Part-III, together with recommendation of District Forest Officer, Medchal-Malkajgiri in Part II, inspection notes, and the other mandatory documents.

The Conservator of Forests, Medak and the District Forest Officers, Suryapet, Yadadri-Bhuvanagiri, have furnished the CA schemes for raising plantations (in 292.3508 ha @ 200 plants per ha in Suryapet, 106.69 ha @ 100 plants per ha in Siddipet, and 12.8919 ha @ 200 plants per ha in Yadadri-Bhuvanagiri) with 10 years of maintenance in non-forest CA lands identified in their respective districts in ref 37th to 39th and District Forest Officer, Bhadradri-Kothagudem, furnished CA scheme for raising plantation with 10 years of maintenance in 350 ha @ 1111 plants/ha in degraded forest lands to meet the requirement of planting 1000 plants per ha of forest lands proposed for diversion, as the required number of plants cannot be planted on non-forest CA lands, in ref 40th cited.

The details of proposal are as follows:

I. The User Agency furnished the following information in Part I and other documents:

- ✓ The proposed diversion of forest land to an extent of 409.53 ha (387.13 Ha horizontal area as per DGPS survey) in Keshavapur Forest Block notified U/s.15 of TS, Forest Act, 1967 in Keesara Range of Medchal Forest Division, for construction of 10 TMC Reservoir with associated components under Godavari River source for Drinking water requirements to the Hyderabad City in favour of HMWSSB.
- ✓ The total cost of the project as **Rs.4777.59 Crores**.
- ✓ The User Agency in its justification has stated that the topographical location of the reservoir site is so selected such that, it is in the gorge portion near the hillock area and having adequate storage capacity. Experts of Hyderabad Metropolitan Water Supply & Sewerage Board, Govt. of Telangana and WAPCOS visited the proposed reservoir site at Keshavapuram. After geological reconnaissance and detailed appraisal of the geological features of the project area, the proposed site has been found to be geologically safe and suitable for construction of the proposed water storage reservoir, based on topo-sheet identification and satellite imageries, some tentative sites around Hyderabad city were visited. Selected areas were traversed and physiographical and other relevant features noted for further examination. Further stated that the reservoir site has been selected with reference to the following parameters:
 - Topography of the reservoir area.
 - Subsurface geological considerations.
 - Condition of the Abutments for the concreted blocks.
 - Foundation meeting the geological requirements.
 - Adequate storage capacity.
 - Accessibility of the site.
 - Availability of construction material.
 - (A detailed report enclosed).

Accordingly proposals have been formulated keeping in view of the tapping source of KondapochammaSagar reservoir in such a way that inflow to proposed Keshavapuram reservoir shall be by gravity mode from Kondapochamma Sagar and accordingly the alignment of reservoir shall constructed based on above criteria/parameters and the details of land for reservoir are as follows:

- ✓ The component-wise break-up of the forest land and non-forest land required for the project are as follows:

S.No.	Division	Block	Compt. No.	Component Description	Area in Ha.
1.	Medchal	Keshavapuram – RF	242 & 243	Earthen Bund area	198.00
				Submergence area	211.53
				Total	409.53

S.No.	Component Description	Forest land area in Ha.	Non-forest land area in Ha.
1	Earthen Bund area	198.00	114.30
2	Submergence area	211.53	146.84
	Total	409.53	261.14

Further stated that all the alternatives have been examined and selected the present location with respect to the above criteria to have sufficient storage of water.

- ✓ The total entire forest area required is 409.53 Ha in Keshavapur RF (387.13 Ha horizontal area as per DGPS survey), block as per survey and mapping.
- ✓ Cost benefit Analysis is enclosed.
- ✓ Employment generated during construction of works for 1000 Nos. of unskilled, semiskilled and skilled workers for a period of (36) months. After completion of project, direct/indirect employments under manning, operation and maintenance and other areas wherein about employment of about 300-400 persons will be generated.
- ✓ Environmental Clearance under the E(P)Act,1980 is not required.
- ✓ 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 topomaps and furnished along with the proposals.
- ✓ **No displacement of people** involved due to this project.
- ✓ The User Agency has furnished the following certificates/documents/ undertaking as required under Forest (Conservation) Act, 1980.
 - Justification for locating the Project inside the Forest Area.
 - Undertaking for deposition of funds towards raising and maintenance of Compensatory Afforestation (CA).
 - Undertaking for deposition of funds towards payment of Net Present Value (NPV) and Additional NPV.
 - Undertaking for deposition of funds towards payment of extraction of tree growth.

- Certificate of Minimum Area.
- Detailed Statement requirement of forest land.
- Map in SI sheet showing the forest land.
- ETS & DGPS/GNSS survey data for forest land proposed for diversion as well as well as CA land & etc.

II. The District Forest Officer, Medchal-Malkajgiri has furnished following information in Part II and inspection Notes:

- ✓ The District Forest Officer, Medchal-Malkajgiri inspected the proposed forest area on 30.05.2020. The forest area proposed diversion is 409.53 ha (387.13 Ha horizontal area as per DGPS survey). The User Agency has furnished proposals for diversion of Forest area to an extent of 409.53 Ha.
- ✓ **Legal status of Forest:** The Keshavapur RF of Keesara Range is notified U/s. 15 of TS, Forest Act, 1967. The proposed area of diversion in Keshavapur RF is entering in Compartment No. 242 & 243 at Latitude-Longitude 17.59663110° N, 78.662725536° E upto Latitude-Longitude 17.59487448° N, 78.65443679° E (as shown in the map).
- ✓ Density of vegetation is 0.1.
- ✓ There are 1,39,274 No's (as per random sampling method done in 37 plots in the proposed area of diversion) trees are coming in the proposed area for diversion. The total value of the trees is Rs.111.825 lakhs as per enumeration report.
- ✓ Vulnerability of the forest area to erosion is Nil.
- ✓ There is no rare/endangered unique species of flora and fauna found and no protected Archaeological/Heritage site/Defence Establishment or any other important monument is located in the area and it will not effect in the existing forest.
- ✓ The proposed area is not falling in any National park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant corridor.
- ✓ No work in violation of Forest (Conservation) Act, 1980 taken place.
- ✓ The non-forest CA lands have been identified in Siddipet, Suryapet and Yadadri-Bhuvanagiri Districts.
- ✓ The forest land proposed for diversion is unavoidable and minimum.
- ✓ The District Forest Officer, Medchal-Malkajgiri has recommended for Forest land in Keshavapur RF of Medchal division for 409.53 ha, for Construction of 10 TMC reservoir at Keshavapuram with associated components under Godavari river source for drinking water requirements to the Hyderabad City in favour of HMWS&SB, Hyderabad.

III. Recommendation of Addl.Pr.Chief Conservator of Forests/CF, Hyderabad in Part III and inspection notes:

The Addl. Pr. Chief Conservator of Forests/CF, Hyderabad has inspected the proposed forest area on **02.06.2020**. Considering the recommendation made and agreeing to the information furnished by the District Forest Officer, Medchal-Malkajgiri in Part-II, the Addl.Pr.Chief Conservator of Forests/CF, Hyderabad has also recommended the Project in Part-III, for diversion of forest land of **409.53 ha** in Keshavapur RF Block of Keesara Range in Medchal Division for construction of 10 TMC Reservoir with associated components under Godavari River source for

Drinking water requirements to the Hyderabad City in favour of HMWSSB.

The Addl. Prl. Chief Conservator of Forests/CF, Hyderabad in his inspection report stated that a Wildlife Rehabilitation Plan in adjacent forest area is required for which the wildlife habitat needs to be improved in the adjoining forest areas, including creation of Awareness towards conservation of Environment and Wildlife.

IV. Compensatory Afforestation:

The User Agency has identified the non-forest CA lands in various districts as follows:

Name of the District	Name of the Mandal	Name of the Village	Survey No	Area in ha (as per DGPS survey)
Siddipet	Siddipet (R)	Bussapur	353	19.8100
		Irkode	780	56.4700
		Venkatapur	120	14.1200
		Total		106.69
Yadadri-Bhuvanagiri	Narayanpur	Mahammadabad	266	12.8919
Yadadri-Bhuvanagiri		Total		12.8919
Suryapet	Jajireddygudem	Adivemula	505	120.4766
		Thimmapuram	418	44.3634
		Kasarlpad	312	23.4168
	Suryapet	Ramavaram	78	63.7908
	Chilkur	Chilkur	1151 /2	28.1417
	Palakeedu	Ravipadu	31	12.1615
	Total			292.3508
Grand Total				411.9327

The District Forest Officers, Suryapet, Siddipet and Yadadri-Bhuvanagiri have inspected the non-forest CA lands and prepared the CA scheme for raising plantation with 10 years of maintenance and furnished with the write-up of the Scheme, maps, unit costs, the abstract and the soil suitability certificates, as follows:

District	Area in ha	Number plants proposed for planting	Total number of plants	Financial Outlay Rs.in Lakhs
Siddipet	106.6900	100	10669	673.40734
Yadadri-Bhuvanagiri	12.8919	200	2578	86.24770
Suryapet	292.3508	200	58470	1480.48383
Total	411.9327		71718	2240.13887

The CA Schemes in NFL have been prepared as per current FSR 2019-20, with escalation of 10% every year. The CA scheme consists of (12) years plan including advance works and raising of plantations. It is proposed to plant tall seedlings. Accordingly, necessary provision was made in CA scheme for Raising & maintenance of nursery, raising of plantation, critical

watering, importing of soil, SMC works, protection of CA lands etc. are provided in the Scheme.

The number of plants to be planted are 409530 i.e., 1000 plants per ha of forest area proposed for diversion. Hence, balance 337812 plants are proposed for planting in degraded forest lands. Accordingly, the District Forest Officer, Bhadradi-Kothagudem has identified the 350 ha degraded forest lands for raising with 10 years of maintenance @ 1111 plants/ha and the details are as follows:

District	Area in ha	Financial Outlay (Rs. in Lakhs)
Manugru	20.0000	128.81962
Kothagudem	200.0000	1283.13606
Kinnerasni WLS	130.0000	959.85645
Total	350.0000	2371.81213
Number of plants proposed to be planted @ 1111 plants/ha		388850

The CA Schemes in DFL have been prepared as per current FSR 2020-21, with escalation of 10% every year. The CA scheme consists of (12) years plan including advance works and raising of plantations. It is proposed to plant tall seedlings. Accordingly, necessary provision was made in CA scheme for Raising & maintenance of nursery, raising of plantation, SMC works, trenching, bund planting, habitat improvement works etc. are provided in the Scheme.

V. RoFR Certificate:

The User Agency has submitted in form – II (Recognition of forest right) Act, 2006 (RoFR) (FRA for short) on the forest land proposed to be diverted for non-forest purposes, issued vide District Collector, Medchal-Malkajgiri Dist Rc.No.E2/1714/2018, Dt: 05.06.2020 with enclosures, wherein it is certified that 409.53 hectares of forest land proposed in Keshavapur RF Block of Keesara Range in Medchal Division the process of settlement of rights under the scheduled Tribes and Other Traditional Forest Dwellers (Recognition of forest Rights) Act, 2006 (FRA' for short) on the forest land proposed to be diverted for non-forest purposes, it is certified that Ac 1012-00 Gts (409.53 Hectares) of Forest land of Keshavapur Reserve Block villages (Keshavapur, Yakathpur and Adraspally) in favour of General Manager (Engg). Division-IX, Hyderabad Metropolitan Water Supply & Sewerage Board, Khairatabad, Hyderabad for the proposal "for construction of 10 TMC Reservoir at Keshavapur village". In Medchal District falls within jurisdiction of Shamirpet & Mudichintalpally Mandals, for construction of 10 TMC Reservoir with associated components under Godavari River source for Drinking water requirements to the Hyderabad City in favour of HMWSSB.

VI. Submission of proposal on-line in Ministry website:

The User Agency has uploaded the revised proposal in the Ministry's website (www.parivesh.nic.in) and a unique file No.FP/TG/water/36146/2018 has been generated by the Ministry's website.

VII. Recommendations of PCCF (HoFF):

In view of the above, the statutory proposal along with necessary enclosures with due recommendation of undersigned in Part-IV duly agreeing to conditions proposed by the District Forest Officer, Medchal-Malkajgiri and Additional Prl.Chief Conservator of Forests/CF, Hyderabad in their respective Part-II & III and inspection reports is submitted in three (3) sets,

for onward transmission to the Ministry of Environment, Forests, Science and Technology & Climate Change, Government of India, New Delhi for according necessary approval of the project.

Encl: (As above)

Yours faithfully,
Sd/-R.Sobha,
Principal Chief Conservator of Forests
(Head of Forest Force) (FAC)

Copy to the Managing Director, Hyderabad Metropolitan Water Supply & Sewerage Board, Khairatabad, Hyderabad-500 004 for information and necessary action.

Copy submitted to the Additional Director General of Forests (Central), Regional Office (South Eastern Zone), MoEF&CC, Gol, Cathedral Gardens, Nungambakkam, Chennai-600034 for favor of information.

Copy to the Addl.Pr.Chief Conservator of Forests, Hyderabad; Chief Conservator of Forests, Kothagudem and Medak for information and necessary action.

Copy to the District Forest Officers, Medchal, Suryapet, Siddipet, Yadadri-Bhuvanagiri, and Bhadradri-Kothagudem for information and necessary action

Copy to the Forest Divisional Officers, Kothagudem, Manuguru, Kinnerasani WLS for information and immediate necessary action.

Copy to the General Manager (Engg.), Project Division No.IX, HMWS&SB, Hyderabad and the Deputy Conservator of Forests, Plantation Cell division, HMWS&SB, Hyderabad for information and immediate necessary action.

//t.c.b.o.//

R. Sobha
for Superintendent 26/08/2020

PART – IV

(to be filled by the Nodal officer or Principal Chief Conservator of Forests or Head of Forest Department)

17.	Detailed opinion and specific recommendation of the State Forest Department for acceptance or otherwise of the proposal with remarks (While giving opinion, the adverse comments made by concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon).	Proposal for diversion of diversion of 409.53 Ha (387.13 ha Horizontal area as per ETS & DGPS survey) of forest land in Keshavapur RF, Medchal-Malkajgiri District for Construction of 10 TMC reservoir at Keshavapuram with associated components under Godavari river source for drinking water requirements to the Hyderabad City in favour of HMWS&SB, Hyderabad is <u>recommended</u> . The conditions proposed by the District Forest Officer, Medchal-Malkajgiri and APCCF/ Conservator of Forests, Hyderabad are agreed to and may be stipulated in the approval.
	Date 29-06-2020. Place: Hyderabad.	<p style="text-align: right;"><i>R. Solla</i> / 29/06/2020 Signature Name & Designation (Official seal)</p> <p style="text-align: center; color: blue;">Principal Chief Conservator of Forests (Head of Forest Force) Telangana, Hyderabad.</p>

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29/6/2020

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