

Subject : Diversion of 730.88 ha. of Forest land in favour of M/s CHIEF ENGINEER NTRTGP TIRUPATI for CONSTRUCTION OF SRI BALAJI RESERVOIR, MALLEMADUGU RESERVOIR & KAILASAGIRI CANAL UNDER GNSS PHASE-II in District Chittoor , State Andhra Pradesh.

1. The State Government of Andhra Pradesh vide their letter no. EFS01-12021/110/Section.II/2018 and date 26.09.2018 submitted the above mentioned proposal to obtain prior approval of central Government, in accordance with Section-2 of the Forest(Conservation)Act,1980.

2. Details indicated in the proposal submitted by the Government of Andhra Pradesh are as below

FACT SHEET

1.	Project Details	
(i)	Proposal No	FP/AP/IRRIG/25639/2017
(ii)	Name of the Proposal	CONSTRUCTION OF SRI BALAJI RESERVOIR, MALLEMADUGU RESERVOIR & KAILASAGIRI CANAL UNDER GNSS PHASE-II
(iii)	Short Narrative of the proposal and Project/scheme for which the forest land is Required	The projects Mallemadugu Reservoir and Sri Balaji Reservoir which are prioritized project in GNSS project phase –II. These two reservoirs have self catchment area from which water can be stored in the reservoirs for getting early benefits in addition to feeding the water to the reservoirs through G
(iv)	Category	Irrigation
(v)	Total Area of the Forest Land (in ha.):	730.88
(vi)	Total period for which the forest land is proposed to be diverted(in years)	
2.	Location:	
(i)	State	Andhra Pradesh
(ii)	District	Chittoor
3.	Detail of user agency	
(i)	Name of the user agency	CHIEF ENGINEER NTRTGP TIRUPATI
(ii)	Shape of forest land proposed to be diverted	Non Linear
(iii)	Legal status of User Agency	State Government

4. Legal status of forest land proposed for diversion

S. No.	Division	Forest Land(ha.)	Legal Status
1	WLM Tirupati	594.75	Section 16
2	WL Chittoor East	136.13	Section 16

5. Land use plan

Component wise breakup

S.no	Component	Forest Land(ha.)	Non-Forest Land(ha.)
1	BUND AND FORESHORE AREA	594.75	431.21
2	CANAL	136.13	201.01
Total		730.88	632.22

6. Vegetation

(i) Species-wise and diameter class wise enumeration of trees

1.Division Name :WL Chittoor East

Species-wise local/scientific names and girth-wise enumeration of trees at FRL

S. No.	Scientific Name	Local Name	(0-30)cm.	(31-60)cm.	(61-90)cm.	(91-120)cm.	(121-150)cm.	(>150)cm.
1	Others	Eeripeni (Duvvena)	167	94	0	0	0	0
2	Others	Janaki	1128	1034	0	0	0	0
3	Others	Neviledi	2068	0	0	0	0	0
4	Diasporus Melanoxylon		816	0	0	0	0	0
5	Others	Sandra	73	0	0	0	0	0
6	Acacia Nilotica	Thumma	1034	1034	0	0	0	0
7	Albezzia Amara	Chigara	66	66	0	0	0	0
8	Azadirachta Indica	Neem	740	604	0	0	0	0
9	Others	Buruga	377	377	0	0	0	0
10	Others	Are	356	0	0	0	0	0
11	Bombax Ceiba	Buraga	94	0	0	0	0	0
12	Others	Sara	583	94	0	0	0	0
13	Others	Nakkini	283	189	0	0	0	0
14	Cassia Fistula	Rela	283	94	0	0	0	0
15	Others	Billudu	94	0	0	0	0	0
16	Others	Pachari	0	0	112	0	0	0
17	Others	Mulla Veluturu	112	0	0	0	0	0
18	Others	Ulinda	1034	0	0	0	0	0
19	Others	Neeruddhi	6560	3102	0	0	0	0
20	Others	Chilla	377	94	0	0	0	0
21	Others	Kondaravi	336	336	0	0	0	0
22	Others	Poliki	628	628	0	0	0	0
23	Others	Irabani	96	0	0	0	0	0
24	Others	Gumpena	900	544	0	0	0	0

25	Others	Gumpena	66	66	0	0	0	0
26	Others	Munikidi	430	0	0	0	0	0
27	Others	Beera	94	0	0	0	0	0
28	Others	Pala	2669	0	0	0	0	0
29	Others	Konda Chigara	1034	0	0	0	0	0
30	Others	Peltoform	0	481	0	96	0	0
31	Others	Usiri	94	0	0	0	0	0
32	Others	Kanuga	1190	544	0	0	0	0
33	Red Sanders	Red Sanders	167	94	0	0	0	0
34	Others	Gotti	9859	1370	0	0	0	0
35	Others	Nerini	377	94	0	0	112	0
36	Others	Mogi	94	0	0	0	0	0
37	Terminalia Chebula	Karaka	335	73	0	0	0	0
38	Others	Thandra	94	94	0	0	0	0
39	Others	Yalama	96	0	0	0	0	0
40	Others	Ziziphus caracutta	289	176	0	0	0	0
41	Zizyphus Xylopyrus	Gotti	330	0	0	0	0	0
42	Eucalyptus	Neelagiri	385	0	193	96	0	0
43	Wrigtria Tingtoria	Konda Jamudu	193	0	0	0	0	0

2.Division Name :WLM Tirupati

Species-wise local/scientific names and girth-wise enumeration of trees at FRL

S. No.	Scientific Name	Local Name	(0-30)cm.	(31-60)cm.	(61-90)cm.	(91-120)cm.	(121-150)cm.	(>150)cm.
1	Sandra	sandra	298	0	0	0	0	0
2	Albezzia Amara	Chigara	2185	7349	695	298		
3	Albezzia Labbeck	Dirishanam	98	694	99	298	99	
4	Azadirachta Indica	Vepa	99	990	0	0		
5	Bambusa Bamboo	Veduru						
6	Bombax Ceiba	Buruga	394	98				
7	Cassia Fistula	Rella	99	495	99			
8	Billudu	Billudu	2483	3178				
9	Dalbergia Latifolia	Jittegi	1986	2879	99			
10	Kanuga(Bio-Diesel)	Kanugu	1970	98				

75	Others	Gavudumanu	0	0	99									
(ii)	Density of Vegetation	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Division Name</th> <th>Density</th> <th>Eco Class</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WLM Tirupati</td> <td>0.5</td> <td>Eco 3</td> </tr> <tr> <td>2</td> <td>WL Chittoor East</td> <td>0.1</td> <td>Eco 3</td> </tr> </tbody> </table>	S.No.	Division Name	Density	Eco Class	1	WLM Tirupati	0.5	Eco 3	2	WL Chittoor East	0.1	Eco 3
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1	WLM Tirupati	0.5	Eco 3											
2	WL Chittoor East	0.1	Eco 3											
(iii)	Total numbers of trees to be filled	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Division Name</th> <th>Total numbers of trees</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WLM Tirupati</td> <td>348921</td> </tr> <tr> <td>2</td> <td>WL Chittoor East</td> <td>47892</td> </tr> </tbody> </table>	S.No.	Division Name	Total numbers of trees	1	WLM Tirupati	348921	2	WL Chittoor East	47892			
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(iv)	Total Tree to be retained .	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Division Name</th> <th>Less than 60(in cm.)</th> <th>Greater than 60(in cm.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WLM Tirupati</td> <td>324709</td> <td>24212</td> </tr> <tr> <td>2</td> <td>WL Chittoor East</td> <td>47283</td> <td>609</td> </tr> </tbody> </table>	S.No.	Division Name	Less than 60(in cm.)	Greater than 60(in cm.)	1	WLM Tirupati	324709	24212	2	WL Chittoor East	47283	609
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1	WLM Tirupati	324709	24212											
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7.	Vulnerability of area to soil erosion	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Division Name</th> <th>Vulnerability of area</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WLM Tirupati</td> <td>not much erosion</td> </tr> <tr> <td>2</td> <td>WL Chittoor East</td> <td>There will be No impact of project on the soil erosion in proposed area</td> </tr> </tbody> </table>	S.No.	Division Name	Vulnerability of area	1	WLM Tirupati	not much erosion	2	WL Chittoor East	There will be No impact of project on the soil erosion in proposed area			
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8.	Approximate distance of proposed site for diversion from boundry of forest (in Km.)	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Division Name</th> <th>distance from boundry of forest(Km.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WLM Tirupati</td> <td>1</td> </tr> <tr> <td>2</td> <td>WL Chittoor East</td> <td>0</td> </tr> </tbody> </table>	S.No.	Division Name	distance from boundry of forest(Km.)	1	WLM Tirupati	1	2	WL Chittoor East	0			
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1	WLM Tirupati	1												
2	WL Chittoor East	0												
9.	Significance of the forest land proposed for diversion from wildlife point of view													
(i)	Details of wildlife present in and around the forest land proposed for diversion	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Division Name</th> <th>Details of wildlife diversion</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WLM Tirupati</td> <td>Spotted Deer, Peacocks, Snakes, Hare, Wild boar are commonly present in this area, Panther, Sloth Bear, Grey jungle fowl are also rarely present in this area.</td> </tr> <tr> <td>2</td> <td>WL Chittoor East</td> <td>No endangered Wildlife is present</td> </tr> </tbody> </table>	S.No.	Division Name	Details of wildlife diversion	1	WLM Tirupati	Spotted Deer, Peacocks, Snakes, Hare, Wild boar are commonly present in this area, Panther, Sloth Bear, Grey jungle fowl are also rarely present in this area.	2	WL Chittoor East	No endangered Wildlife is present			
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(ii)	Whether forms part of national park, wildlife sanctuary, biosphere reserve,tiger reserve, elephant corridor, wildlife migration corridor etc.	<table border="1"> <thead> <tr> <th data-bbox="703 103 858 311">S.No.</th> <th data-bbox="858 103 1161 311">Division Name</th> <th data-bbox="1161 103 1474 311">National park/Wildlife sanctuary/Biosphere reserve/Tiger reserve/Elephant corridor/Wildlife migration corridor</th> </tr> </thead> <tbody> <tr> <td data-bbox="703 311 858 371">1</td> <td data-bbox="858 311 1161 371">WLM Tirupati</td> <td data-bbox="1161 311 1474 371">No</td> </tr> <tr> <td data-bbox="703 371 858 432">2</td> <td data-bbox="858 371 1161 432">WL Chittoor East</td> <td data-bbox="1161 371 1474 432">No</td> </tr> </tbody> </table>	S.No.	Division Name	National park/Wildlife sanctuary/Biosphere reserve/Tiger reserve/Elephant corridor/Wildlife migration corridor	1	WLM Tirupati	No	2	WL Chittoor East	No			
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1	WLM Tirupati	No												
2	WL Chittoor East	No												
(iii)	Whether the forest land proposed for diversion is located within eco-sensitive zone(ESZ) of the Protected Area notified under Wildlife(Protection) Act,1972 (Note: In case, ESZ of a Protected Area is not notified,then,10kms distance from boundary of the Protected Area should be treated as ESZ)::	<table border="1"> <thead> <tr> <th data-bbox="703 517 858 600">S.No.</th> <th data-bbox="858 517 1161 600">Division Name</th> <th data-bbox="1161 517 1474 600">Diversion is located within ESZ</th> </tr> </thead> <tbody> <tr> <td data-bbox="703 600 858 660">1</td> <td data-bbox="858 600 1161 660">WLM Tirupati</td> <td data-bbox="1161 600 1474 660">No impact</td> </tr> <tr> <td data-bbox="703 660 858 721">2</td> <td data-bbox="858 660 1161 721">WL Chittoor East</td> <td data-bbox="1161 660 1474 721"></td> </tr> </tbody> </table>	S.No.	Division Name	Diversion is located within ESZ	1	WLM Tirupati	No impact	2	WL Chittoor East				
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(v)	Whether any rare/endangered/unique species of flora and fauna found in the area :	<table border="1"> <thead> <tr> <th data-bbox="703 1137 858 1220">S.No.</th> <th data-bbox="858 1137 1161 1220">Division Name</th> <th data-bbox="1161 1137 1474 1220">flora and fauna found in the area</th> </tr> </thead> <tbody> <tr> <td data-bbox="703 1220 858 1281">1</td> <td data-bbox="858 1220 1161 1281">WLM Tirupati</td> <td data-bbox="1161 1220 1474 1281">No</td> </tr> <tr> <td data-bbox="703 1281 858 1341">2</td> <td data-bbox="858 1281 1161 1341">WL Chittoor East</td> <td data-bbox="1161 1281 1474 1341">Yes</td> </tr> </tbody> </table>	S.No.	Division Name	flora and fauna found in the area	1	WLM Tirupati	No	2	WL Chittoor East	Yes			
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2	WL Chittoor East	Yes												
10.	Whether any protected archaeological/ heritage site/ defence establishment or any other important monument is located in the area. if so, the details thereof with NOC from competent authority, ifrequired.	<table border="1"> <thead> <tr> <th data-bbox="703 1429 858 1547">S.No.</th> <th data-bbox="858 1429 1161 1547">Division Name</th> <th data-bbox="1161 1429 1474 1547">Details of with NOC from competent authority</th> </tr> </thead> <tbody> <tr> <td data-bbox="703 1547 858 1608">1</td> <td data-bbox="858 1547 1161 1608">WLM Tirupati</td> <td data-bbox="1161 1547 1474 1608">No</td> </tr> <tr> <td data-bbox="703 1608 858 1668">2</td> <td data-bbox="858 1608 1161 1668">WL Chittoor East</td> <td data-bbox="1161 1608 1474 1668">No</td> </tr> </tbody> </table>	S.No.	Division Name	Details of with NOC from competent authority	1	WLM Tirupati	No	2	WL Chittoor East	No			
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1	WLM Tirupati	No												
2	WL Chittoor East	No												
11.	Whether the requirement of forest land as proposed by the User Agency is unavoidable and bare minimum for the project.if no,recommended area item-wise with details of alternatives examined.	Yes												
12.	Whether any work in violation of the Act has been carried out(Yes/No).if yes,details of the same including of the	<table border="1"> <thead> <tr> <th colspan="4" data-bbox="703 2007 1474 2056">Details of violation(s), if any ,committed</th> </tr> <tr> <th data-bbox="703 2056 831 2154">Division Name</th> <th data-bbox="831 2056 986 2154">Details of violation(s)</th> <th data-bbox="986 2056 1161 2154">Period of Work done(year)</th> <th data-bbox="1161 2056 1474 2154">Area of forest land involved in violation (in ha.):</th> </tr> </thead> <tbody> <tr> <td data-bbox="703 2154 831 2154"></td> <td data-bbox="831 2154 986 2154"></td> <td data-bbox="986 2154 1161 2154"></td> <td data-bbox="1161 2154 1474 2154"></td> </tr> </tbody> </table>	Details of violation(s), if any ,committed				Division Name	Details of violation(s)	Period of Work done(year)	Area of forest land involved in violation (in ha.):				
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	work done,action taken on erring officials. Whether work in violation is still under progress.	WL Chittoor East	No	No	No
		WLM Tirupati	No	No	No
13.	Details of compensatory afforestation scheme				
	Patch wise details of non-forest or Revenue forest land to be provided by User Agency for CA				
(i)	Patch Wise Details				
	S.no	District Name	Village	Area(in ha.)	
	1	Chittoor	Kalicherla	167.16	
	2	Chittoor	Bandrevu	170.51	
	3	Chittoor	Chittiboyanapalle	117.02	
	4	Chittoor	Cherlopalle	270.22	
	5	Chittoor	Reddivaripalle	266.97	
	Total	Area :991.88			
(ii)	Patch wise details for Degraded Area (To be earmarked by DFO)				
	No Data				
(iii)	Total Financial Outlay for C.A(lacs):	S.No.	Division Name	Total Financial Outlay for C.A(lacs)	
		1	WLM Tirupati	4780.00	
		2	WL Chittoor East	4780.00	
(iv)	Whether the land identified by User Agency is suitable for CA and from managementpoint of view:	S.No.	Division Name	Land is suitable for CA	
		1	WLM Tirupati	Yes	
		2	WL Chittoor East	Yes	
14.	Documentary evidence in support of settlement of rights in accordance with the provisions of the scheduled Tribes and other Traditional Forest Dwellers(Recognition of forest Rights) Act,2006 on the forest land proposed to be diverted enclosed.	1. For non linear part- FRA certificate has issued by District collector Chittoor vide letter No. REV-CSE(OMGIR)dated 05.01.2018 and original copy of FRA is attached at page no. 72. The FRA certificate has been issued for diversion of 595.331 ha for non linear. The Gram Sabha Resolution for the villages namely Chaitanapuram, Krishanapuram and S U Puram in Karakambadi and karishnapuram RF for Shri Balaji Reservoir and Mallemadugu reservoir of 595.331 ha is enclosed at page no. 73-78 in Regional language as well as English translation copy with counter signed by DFO. 2. For linear part- FRA certificate has issued by District collector Chittoor vide letter No. REV-CSE(OMGIR)-5-2017 dated 05.01.2018 and copy of FRA is attached at page no. 214. The FRA certificate has been issued for diversion of 145.554 ha for linear			

		projects. The Gram Sabha Resolution for the villages namely Musalipedu, Ramapuram, Birajukandriga, Timmasamudram, Seshampeta, Krishnapuram and SS Puram in Ramapuram & Adavaram and Nagalamapuram for Kailashgiri Canal of 145.554 ha is enclosed at page no. 215-225 in Regional language.							
15.	Whether the project requires environment Clearance	No							
16.	Catchment Area Treatment Plan	In order to address concerns of erosion in catchment areas of the two proposed reservoirs and for Soil Moisture Conservation (SMC), the UA has submitted CAT plan in respect of each of them. In case of Sri Balaji Reservoir, the proposed CAT plan is at a cost of Rs. 203.3 Lakhs and in case of Mallemadugu Reservoir it is at a cost of Rs. 513.6 Lakhs. In these plans, undertaking SMC works and developing limited forest infrastructure have been proposed.							
17.	Rehabilitaion of Outstee								
(i)	Number of SC Families	0							
(ii)	Number of ST Families	0							
(iii)	Number of Backword Families	0							
(iv)	Copies of R&R Plan	Available at page no. 38-44/c No. of ST families- 56 No. of Sc Families - 72							
18.	Cost Benefit Analysis	Given at page no. 48-49 (C.B. Ratio is 2.023)							
19.	Total cost of the project(in crore):	32067							
20.	Employment Potential	Permanent Employee : 0 Temporary Employee : 7500 Total Employee : 7500							
21.	Details of Mining lease	No							
22.	Undertaking to bear the cost of CA and NPV	1. Undertaking for bear the cost of CA- At page no. 31 in Tirupati Division. 2. Undertaking for bear the cost of NPV- At page no. 32 in Tirupati Division. 3. Undertaking for bear the cost of CA- At page no. 207 in Chittoor Division. 4. Undertaking for bear the cost of NPV- At page no. 204 in Chittoor Division. 5. Undertaking for bear the cost of Addl. NPV- At page no. 205 in Chittoor Division							
23.District Profile									
S.no	District Name	Geographical area of the district (in ha.)	Forest area of the district (in ha.)	Total forest area diverted since 1980 (in ha.)	No. of Approved Cases	Forest Land including penal C.A. (in ha.)	Progress of compensatory afforestation as on(date)	Forest land (in ha.)	Non-forest land (in ha.)
1	Chittoor	133167	80911.3	80.4903	6	8.0503	31/03/2018	8.0503	84.44
2	Chittoor	1515200	452167	834.495	19	322.041	30/06/2018	319.475	574.870
24.	Total area proposed for afforested since 1980 -	Degraded forest land - 8.0503		Penal CA over Forest land - 8.0503		Non-Forest land - 84.44		Total- 100.5406	

25.	Total area afforested since 1980 -	Degraded forest land - 8.0503 Penal CA over Forest land - 8.0503 Non-Forest land - 84.44 Total- 100.5406
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26.Site Inspection Report

Division	Circle	Site Inspection By	Date Of Visit	Brief Details of SIR at DFO
WL Chittoor East	WLM - Tirupathi	DFO	27/08/2018	At Page no. 122-123.
WLM Tirupati	WLM - Tirupathi	DFO	31/08/2018	At Page no. 61-64.
	WLM - Tirupathi	CF	10/09/2018	At page no. 66.

27.Recommendation with Specific conditions,(if any)

DFO/CF/PCCF/Nodal Officer

Division	Circle	Recommendation By	Recommendation	Remarks/Conditions
WL Chittoor East	WLM - Tirupathi	DFO	Recommended	The proposal has been recommended by the DFO Chittoor. The recommendations of the DFO Chittoor is enclosed at page no. 162-165.
WLM Tirupati	WLM - Tirupathi	DFO	Recommended	Sri Balaji Reservoir and Mallimadugu Reservoir are proposed to serve drinking water to Tirupati city, Tirumala and enroute villages and ayakut of 51050 Acres. Further on construction of these Reservoirs, water will be available in Reservoirs throughout the year and it will cater the drinking water needs to the wild animals even in summer season also. Further on construction of these reservoirs water table in surrounding forests will be increased. The land proposed for diversion for construction of these reservoirs water tables in surrounding forests will be increased. The land proposed for diversion for construction of Balaji & Mallimadugu reservoir is barest minimum. Hence recommended. Page no. .
	WLM - Tirupathi	CF	Recommended	Recommended the proposals. Page no. 66.
		Nodal Officer	Recommended	Recommended. Page no. 67.

28. Specific recommendation of the State Government

State	Recommendation By	Recommendation	Remarks/Conditions
Andhra Pradesh	State Secretary	Recommended	Recommended to consider the proposal for diversion of 730.88 ha of forest land (594.75 ha in Karakambadi RF, Krishnapuram RF of WLM Division Tirupati for construction of Shri Balaji Reservoir for alignment of bund, Foreshore submersion + 136.13

ha in Ramapuram RF, Adavaram RF and Nagalapuram RF of Chittoor East (WL) Division, Chittoor for construction of Kailasagiri Canal) in favour of Executive Engineer, GNSS Division, Renigunta, Tirupati under GNSS Pahse-II project in the State of Andhra Pradesh.

29.

Forwording Letter for Nodal Officer

Ref -

1. EE, GNSS Division, NTRTGP, Tirupati Proposal No. FP/AP/IRRIG/25639/2017, Dt. 21.04.2017
2. PCCF (HoFF), A.P., Guntur ref. No. 2244/2016/FCA-1 Dt. 09.01.2018
3. SE, TGP & GNSS Circle, Tirupati Rc.No. SE/TGP& GNSS/C/TPT/DW/AEE1/GNSS Forests/28M, Dt. 08.01.2018.
4. PCCF & s Ref.No.2244/2016/FCA-1 dt10.01.2018.
5. CF, WLM Tirupati Rc.No.51/2018/M1, Dt 10.09.2018

It is Informed that, the Superintending Engineer, TGP & GNSS Circle Office Complex, Tirupati vide reference 3rd cited has submitted held comes of proposal for diversion of forest land to an extent of 730.88 Ha. of Forest Land in Karakambadi RF, Krishnapuram RF, Adavaram RF, Rdmdpumm RF and Nagalapuram RF for Alignment of bund, Foreshore submersion and Canals for Sri Balaji Reservoir, Mallemadugu Reservoir and Kailasagiri Canal in Chittoor District under GNSS Phase-II Project.

The proposal was sent to the Divisional Forest Officers, WLM Tirupati and Chittoor East WL Divisions and Conservator of Forests, Tirupati vide reference 4th cited for processing as per guidelines envisaged under Forest (Conservation) Act, 1980 and amendments thereon. Accordingly, the Conservator of Forests, Tirupati vide reference 5th cited has submitted the proposal duly processed under Forest (Conservation) Act, 1980 guidelines and amendment thereon for diversion of 730.88 Ha of forest land as per the field inspection.

The details of the proposals are as follows -

The User Agency has furnished the following information in Part-I

Ø This proposal is for diversion of 730.88 Ha. of Forest Land Karakambadi RF, Krishnapuram RF of VVLM Division Tirupati and Adavaram RF, Ramapuram RF, Nagalapuram RF of Chittoor East WL Division for Alignment of bund, & lquo Foreshore submersion and Canals for S-I Balaji Reservoir, Mallemadugu Reservoir and Kailasagiri Canal in Chittoor District under GNSS Phase-II Project.

Ø For locating the project in forest area, the user agency has justified that Sri Balaji Reservoir is a newly constructed reservoir with capacity 3.00 TMC, 1.00 TMC for drinking water for Tirupati, Tirumala and 2.00 TMC for Irrigation purpose to feed Mallemadugu Reservoir. The Mallemadugu Reservoir is an existing one with capacity 0.176 TMC is enhanced its capacity to 2.65 TMC by raising the bund. Thereby increases the ayacut of 51050 acres in drought prone area of Chittoor District Sri Balaji Reservoir and Mallemadugu Reservoirs are proposed to serve the needs fog both drinking and as well as Irrigation purpose. As no other

for drinking and as well as irrigation purpose. As no other alternative suitable non-forest area is available except the present location in forest area is inevitable for Canals and Reservoirs.

Ø The area required for the project is barest minimum area and unavoidable for which it is proposed.

Ø The User agency has submitted that, there will be an employment generation of about 7500 Number of person-days.

Ø Purpose-wise break-up of the total land required is as follows

S.No.	Purpose	Division	Area (in ha.)
1.	Bund and Foreshore area	WLM Tirupati	594.75
2.	Canal	Chittoor East WL	136.13
		Total	730.88

Ø The user agency has submitted that the clearance under Environment (Protection) Act, 1986 is not required.

Ø The User Agency has submitted under taking to bear the cost of raising and maintenance of the compensatory afforestation in any of the degraded forest land. The User Agency has given undertaking regarding NPV, Addl. NPV and tree extraction charges in the forest land proposed for diversion as and when the demand is raised by the Forest Department, if any.

Ø The User Agency has identified land for raising of compensatory Afforestation. The details of CA are as follows

S.No.	Name of the village	Name of the Division	Area (in hectare)
1.	Kalicherla		167.16
2.	Bandrevu		170.51
3.	Chittiboyanapalle	Chittoor West	117.02

4.	Cherlopalle		270.22
5.	Reddivaripalle		266.97
		Total	991.88

Ø The User Agency has submitted the certificate under RoFR Act-2006, as required under Forest (Conservation) Act, 1980.

Ø The User Agency has submitted the authentic DGPS surveyed map for the area proposed for diversion.

The Divisional Officer, WLM Division, Tirupati has furnished the information in Part-II as follows

Ø Area proposed by the User Agency for diversion of 730.88 ha in which 594.75 ha of forest land falls in the jurisdiction of WLM Division Tirupati in Comt. Nos. 145, 146, 147, 148, 149, 150 of Karakambadi RF and Compt. Nos. 153, 154, 155 of Krishnapuram for construction of

Ø Shri Balaji Reservoir and Mallemadugu Reservoir in favour of Executive Engineer, GNSS Division, Renigunta, Tirupati has notified under Section 15 of A.P. Forest Act, 1967 Dt 27.01.1979 and Dt 29.11.1976 respectively.

Ø The Density of vegetation is 0.5.

Ø The Divisional Forest Officer has stated that the forest area is unavoidable and barest minimum for the project.

Ø The Divisional Forest Officer has stated the said forest area is not much vulnerable for soil erosion.

Ø The Divisional Forest Officer has stated that Reservoir partly falls in RF and partly in outside the RF.

Ø The Divisional Forest Officer has stated that the proposal does not affect any monument of Archaeological and Defense Establishments importance and also does not fall in any part of Wildlife Sanctuary, National Parks, Biosphere Reserve, Tiger Corridor, Elephant Corridor etc. but falls in Eco sensitive zone of Sri Venkateswara Wildlife Sanctuary. The distance from S.V. Sanctuary boundary to submersion area of full Reservoir Level is 0.3 Kms and Reservoir Bund from Sanctuary boundary is 2.4Kms for Sri Balaji Reservoir.

Ø The Divisional Forest Officer has stated that no rare/endangered/unique species of flora and fauna found in the proposed area.

Ø The Divisional Forest Officer has inspected the proposed area on 04.06.2018.

Ø The Divisional Forest Officer has stated that no violation is occurred as per the provisions of Forest (Conservation) Act, 1980 and Wildlife Act, 1972 under the proposed project.

Ø The Divisional Forest Officer has stated that non forest land (CA land) identified in Sy.No.529 of Peddamandyam

Mandal, Sy.No.82 & . 259 of Gurrankonda Manda] and Sy.No.510 of Nimmanapalli Mandal of Madanapalli Range of Chittoor West Division of Ananthapuram Circle. The total area identified is 991.88 Ha. out of which 750 Ha. is considered for CA and prepared Compensatory Afforestation Scheme with total financial outlay of Rs.4780 Lakhs.

Ø The Divisional Forest Officer, WLM Division Tirupati has recommended the proposal in Part-II.

The Divisional Forest Officer Chittoor East VL Division Chittoor has furnished the information in Part-II as follows

Ø Area proposed by the user agency for diversion of 730.88 Ha in which 136.18 Ha. of forest land falls in the jurisdiction of Chittoor East WL Division, Chittoor in Compt. Nos. 206, 205, 202, 201, 200, 228 of Ramapuram & Adavaram RF and Compt. Nos. 288, 289, 290, 291 of Nagalapuram RF for construction of Kailasagiri Canal in favour of Executive Engineer, GNSS Division, Renigunta, Tirupati has notified under Section 15 of AP. Forest Act, 1967 vide G.O.Ms.No.1568, F& A Dept, Dt 29.07.1968 and G.O.Ms.No.786, Dt 17.05.1972 respectively.

Ø The Density of vegetation is 0.10.

Ø The Divisional Forest Officer has stated that the forest area is unavoidable and barest minimum for the project.

Ø The Divisional Forest Officer has stated that there will be No impact of project on the soil erosion in the proposed forest area.

Ø The Divisional Forest Officer has stated that the distance of proposed site is within the Reserve Forest boundary.

Ø The Divisional Forest Officer has stated that the proposal does not affect any monument of Archaeological and Defence Establishments importance and also does not fall in any part of Wildlife Sanctuary, National Parks, Eco sensitive zone.

Ø The Divisional Forest Officer has stated that no rare/endangered/unique species of flora and fauna found in the proposed area except 262 Nos. of Red Sanders trees in the proposed diversion area as per sample plots laid in 15 locations. Further, the Divisional Forest Officer has stated that there is one old Red Sanders plantation in Ramapuram RF in which part of the canal is passing through this plantation in ComplNo.228.

Ø The Divisional Forest Officer has submitted tree enumeration abstract with species wise and diameter wise.

Ø The Divisional Forest Officer has inspected the proposed area on 07.06.2018.

Ø The Divisional Forest Officer has stated that no violation is occurred as per the provisions of Forest (Conservation) Act, 1980 and Wildlife Act, 1972 under the proposed project.

Ø The Divisional Forest Officer has stated that non forest land (CA land) identified in Peddamandyam Mandal, Gurrankonda Mandal and Nimmanapalli Mandal of Chittoor West Division of Ananthapuram Circle.

		<p>Ø The Divisional Forest Officer, Chittoor East (WL) Division, Chittoor has recommended the proposal in Part-II.</p> <p>The Conservator of Forests, WIM Circle, Tirupati has agreed with the information given in Part-II and the recommendations of both the Divisional Forest Officers, WLM Division Tirupati and Chittoor East WL Division and recommended in Part-III.</p> <p>The proposal has been uploaded in the Ministry's website and unique No. FP/AP/IRRIG/25639/2017 Dt 21.04.2017 generated and the acknowledgement slip generated on the web portal is enclosed herewith.</p> <p>The Divisional Forest Officers, WLM Division Tirupati and Chittoor East (VVL) Division Chittoor and Conservator of Forests, WLM Circle, Tirupati have recommended the proposal.</p> <p>In view of the above, the statutory proposal along with necessary enclosures duly recommended in Part-IV, are submitted herewith for taking necessary action in the matter.</p>
30.	Forwording Letter for State Government	<p>I enclose herewith a copy of the letter cited along with statutory proforma proposal under Forest (Conservation) Act, 1980, submitted by the Principal Chief Conservator of Forests & Head of Forest Force, Andhra Pradesh for diversion of 730.88 Ha. of forest land (i.e.594.75 ha. in Karakambadi RF and Krishnapuram RF of WLM Division Tirupati for construction of Sri Balaji Reservoir and Malleamadugu Reservoir (for Alignment of bund, Foreshore submersion), and 136.13 ha. in Ramapuram RF, Adavaram RF and Nagalapuram RF of Chittoor East (WL) Division, Chittoor for construction of Kailasagiri Canal) in favour of Executive Engineer, GNSS Division, Renigunta, Tirupati.</p> <p>2. I wish to inform that the user agency i.e. Executive Engineer, GNSS Division, Renigunta, Tirupati has submitted justification stating that the area proposed for diversion is for earth work excavation of GNSS Main canal and there is no option to take the alignment of GNSS canal in Non-Forest area. The Chittoor District is a religious and historical place, therefore lakhs of pilgrims may be visited from the various parts of the country and world and it is an additional burden to the District. It shows the necessity of other alternate arrangements has to be made for the feature requirements or even for present situations to supply the water to Tirumala and Tirupati town. As such Sri Balaji Reservoir and Mallimadugu Reservoirs are proposed to serve the needs for both drinking and as well as irrigation purpose. As no other alternative suitable non-forest area is available except the present location in forest area is inevitable for Canals and Reservoirs and the area required for the project is barest minimum area for the purpose for which it is proposed. The User agency has submitted an undertaking to bear the cost of raising and maintenance of compensatory afforestation, payment of Net present Value (NPV), additional NPV and tree extraction charges etc. The Principal Chief Conservator of Forests has reported that the user agency has not violated the provisions of Forest (Conservation) Act, 1980.</p> <p>3. The District Collector, Chittoor District has issued necessary certificates in respect of non-linear projects i.e. Sri Balaji Reservoir & Malleamadugu Reservoir under Scheduled Tribes & Other Traditional Forest Dwellers</p>

(Recognition of Forest Right) Act, 2006, as stipulated by the Ministry of Environment, Forests & Climate Change, Government of India, New Delhi vide Lr.No.11-9/1998-FC (pt), Dt.03.08.2009, in the prescribed format Annexure-II (Form-II) and linear project i.e. Kailasagiri, issued necessary certificate under Scheduled Tribes & Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, as stipulated by the Ministry of Environment, Forests & Climate Change, Government of India, New Delhi vide Lr.No.11-9/1998-FC (pt), Dt.05.07.2013, in the prescribed format Annexure-I (Form-I) for evidences for having initiated and completed the process of settlement of rights. The field officers concerned and the Principal Chief Conservator of Forests & Head of Forest Force, have recommended the proforma proposal in Part-II, III and IV respectively. The recommendation of the State Government in the proforma proposal in Part-V is enclosed herewith.

4. I request you to obtain and communicate the approval of Government of India, Ministry of Environment, Forests & Climate Change, under Section 2 of Forest (Conservation) Act, 1980, for diversion of 730.88 Ha. of forest land (i.e.594.75 ha. in Karakambadi RF and Krishnapuram RF of WLM Division Tirupati for construction of Sri Balaji Reservoir and Mallemadugu Reservoir (for Alignment of bund, Foreshore submersion), and 136.13 ha. in Ramapuram RF, Adavaram RF and Nagalapuram RF of Chittoor East (WL) Division, Chittoor for construction of Kailasagiri Canal) in favour of Executive Engineer, GNSS Division, Renigunta, Tirupati, at an early date.

Brief detail of SIR by RO

SITE INSPECTION REPORT OF SHRI D.SATHIYAN, IFS, CF (CENTRAL),

REGIONAL OFFICE (SEZ), CHENNAI, ON 730.88 Ha. OF FOREST LANDS PROPOSED FOR DIVERSION IN ANDHRA PRADESH FOR CONSTRUCTION OF BALAJI RESERVOIR, MALLEMADUGU RESERVOIR AND KAILASAGIRI CANAL UNDER GALERU-NAGARI SUJALA SHRAVANTHI (GNSS) PROJECT PHASE II, IN FAVOUR OF THE EXECUTIVE ENGINEER, GNSS DIVISION, RENIGUNTA, TIRUPATI AND ALSO ON THE NON-FOREST LANDS PROPOSED FOR COMPENSATORY AFFORESTATION

Date of Site Inspection 05.12.2018 to 07.12.2018

1. INTRODUCTION

1.1. Subject Proposal This site Inspection Report (SIR) is in connection with the following proposal

Diversion of 730.88 ha of forest land i.e. 594.75 ha in Karakambadi RF, Krishnapuram RF of WLM Division, Tirupati for construction of Sri Balaji and Mallemadugu Reservoirs (for alignment of bunds, foreshore submersion) and 136.13 ha in Ramapuram RF, Adavaram RF and Nagalapuram RFs of Chittoor (East) Division for construction of Kailasagiri canal, as part of the GNSS project Phase-II, packages 10 & 11, in favour of EE, GNSS Division, Renigunta, Tirupati.

1.2. The above mentioned proposal seeking clearance under the FC Act, 1980 was directly submitted by the Government of Andhra Pradesh vide letter No. EFS01-12021/110/section.II/2018 dated 26.09.2018 to the Ministry of Environment, Forest & Climate Change, Govt. of India.

1.3. The Ministry has requested the regional Office (SEZ), Chennai to inspect the forest lands proposed for diversion under this proposal and submit a report vide F.No. 8-63/2018-FC dated 05.11.2018.

1.4. As assigned by the APCCF(C), R.O., Chennai, site inspection of some random locations within the Forest Lands (FL) proposed for diversion and the Non-Forest Lands proposed for Compensatory Afforestation (CA), was undertaken by the undersigned, from 05.12.2018 to 07.12.2018. The DFO, WLM Division -Tirupati, the DFO, Chittoor West Division, the DFO, Chittoor (East) WL Division, the Executive Engineers in charge of Package 10 and 11 under Phase II of GNSS were present during a part or whole of the field visits.

1.5. The information, facts and figures mentioned in this report have been collected from various sources including the project proposal proforma and related documents received from the Government of Andhra Pradesh, the documents and information received from the Project Authority (PA) as well as the local forest officers during the field inspection.

2. BRIEF REPORT ON THE GNSS PROJECT

2.1. As per information provided by the User Agency (UA), the GNSS Project was conceived by the Government of Andhra Pradesh to provide irrigation facilities in the chronically drought affected areas in the districts of Kadapa, Chittoor and Nellore and approved vide G.O. Ms. No. 236, dt 22-9-1988. This project was formulated to provide irrigation facilities to an extent of 2.60 lakh acres (1.55 lakh acres in Kadapa, 1.035 lakh acres in Chittoor and 1500 acres in Nellore), besides supply of drinking water to 20 lakh people living in the villages and towns on its banks. The total water requirement for irrigation and drinking water is about 38 TMC, which is to be met from the surplus flows of river Krishna from the Srisailem reservoir.

2.2. As informed by the UA, the KWDT award permitted the State of Andhra Pradesh to utilize the surplus flows available in the Krishna River over and above the 2060 TMC dependable flows. The GNSS Project has been formulated to draw 38 TMC of surplus floodwaters of Krishna River.

The proposed water utilization is as follows

1.	Crop water requirement	24.00 TMC
2.	Drinking water	2.00 TMC
3.	Evaporation and transmission losses	6.00 TMC
4.	Gandikota Lift Irrigation Scheme	6.00 TMC
	Total	38.00 TMC

2.3. As reported, the project envisages drawl of 38.00 TMC of surplus flood waters of river Krishna from the fore shore of the Srisailem Reservoir through the Potyreddypadu head regulator, Srisailem Right Main Canal (SRMC) and Srisailem Right Branch Canal (SRBC) system to reach Gorakallu Reservoir and thereafter feeding 11 en-route reservoirs through the Galeru-Nagari Flood Flow Canal so as to utilize the stored water for drinking and irrigation purposes during rabi season to benefit the districts of Kadapa, Chittoor and Nellore. The total storage in these 11 reservoirs is about 33.160 TMC.

Details of Reservoirs proposed under GNSS Project

Sl. No.	Name of the Reservoir & Location	F.R.L in M	Gross Capacity in TMC	Live Storage in TMC	Ayacut in Acres
1	Gandikota Reservoir	+212.000	26.850	22.	110000
2	Vamikonda Sagar @ K.M. 24.330	+200.000	1.600	1.338	10,000
3	Sarvaraja Sagar @ K.M. 32.640	+201.300	3.059	2.764	25,000
4	Uddimadugu Reservoir @ K.M. 146.950	+188.600	1.040	0.900	10,000
5	Mallemadugu Reservoir @ K.M. 260.600	+120.000	2.858	2.750	30,000

6	Sri Balaji Reservoir @ K.M. 261.800	+174.000	3.000	2.963	25,000
7	Padma Sagar @ K.M. 297.021	+165.000	0.450	0.445	5,000
8	Srinivasa Sagar @ K.M. 301.621	+163.000	0.448	0.419	4,200
9	Venugopala Sagar @ K.M. 314.521	+172.000	2.683	2.448	25,800
10	Vepagunta Reservoir @ K.M. 329.221	+170.000	0.533	0.480	5,000
11	Adavikotturu Reservoir @ K.M. 338.721	+171.500	1.000	0.910	10,000
		TOTAL	43.521 TMC	37.707 TMC	260000 Acres

2.4. Details of Mandal wise ayacut under GNSS project in Kadapa District

Sl. No.	Package No.	Chainage (from - to)	Ayacut under the Package (in acres)	Mandal wise ayacut (in acres)	Mandal wise ayacut (in acres)
I	GNSS Phase-I	GNSS Phase-I			
1	Package & ndash I	KM. 0.00 to KM. 24.330	5,000	Muddanuru	5000
2	Package & ndash II	KM. 24.330 to	35,000	Muddanuru	10000
		KM. 32.640		V.N. Palli	20000

					Yerraguntla	5000
II	GNSS Phase - II					
3	Package & ndash 01/06	KM. 32.640 to	5000		Yerraguntla	3000
		KM. 66.150			Vempalli	2000
4	Package & ndash 02/06	KM. 66.150 to	12000		Vempalli	7000
		KM. 96.500			Pendlimarri	5000
5	Package & ndash 03/06	KM. 96.500 to	25000		Pendlimarri	9000
		KM. 119.000			C.K. Dinne	10000
					Kadapa Rural	6000
6	Package & ndash 04/06	KM. 119.000 to	10000		Siddout	10000
		KM. 141.350				
7	Package & ndash 05/06	KM. 141.350 to	5000		Siddout	5000
		KM. 161.350				
8	Package & ndash 06/06	KM. 161.350 to	18000		Ontimitta	7000

		KM. 203.850		Nandaluru	7000
				Rajampet	4000
9	Package & ndash 07/06	KM. 203.850 to	40000	Rajampet	5000
		KM. 240.000		Pullampet	10500
				Obulavaripalli	14500
				Chitvel	10000
		Total Ayacut of Kadapa District	1,55,000	Acres	
		Total Ayacut of Chittoor District	1,03,500	Acres	
		Total Ayacut of Nellore District	1,500	Acres	

2.5. The UA has informed that, keeping in view the large magnitude of the project and the long period required for its completion, in order to derive early benefits for the needy areas, the GNSS Project has been taken up in a phased manner. The Government have accorded administrative approval for GNSS Phase-I vide G.O. Ms. No. 53. dated 10-06-2004 for Rs. 560.00 Crores to provide irrigation facilities to an extent of 35,000 acres and the works of GNSS Phase& ndash I are stated to be nearing completion.

2.6. Present Status of the GNSS Scheme, Phase-I

2.6.1. **GNSS Phase-I, Flood Flow Canal** As informed by the UA, the GNSS Flood Flow Canal takes off from the foreshore of Owk Reservoir to carry water up to Gandikota Reservoir. The Flood flow canal is divided in to 3 Packages in addition to the Tunnel at the end. All works of Gandikota Flood Flow Canal from Owk Reservoir to Gandikota Reservoir were completed and Presently Krishna water is stored in Gandikota Reservoir.

2.6.2. **GNSS Phase-I, Gandikota Dam** As reported by the UA, the Gandikota Reservoir with a storage capacity of 26.85 TMC was constructed under GNSS Phase-I and was inaugurated on 22-09-2018.

2.6.3. **GNSS Phase I, Pack-II - Sarvarajasagar and Vamikondasagar** As reported, this package consists of formation of Vamikonda Sagar (1.60 TMC) and Sarvaraja Sagar (3.06 TMC) Reservoirs and excavation of GNSS Main Canal from KM 24.330 to KM. 32.640 (8.31 KMs in length) and the works are reportedly nearing completion. The GNSS Main Canal Structures have been reportedly completed, except two. During 2017-18, 0.502 TMC of Krishna water was stored in Vamikonda Sagar Reservoir and 0.602 TMC in Sarvaraja Sagar Reservoir in 2018-19.

2.6.4. **GNSS Phase I, SH-31 Road** As reported, since formation of Gandikota Reservoir would result in submergence of

SH 31, as an alternative, construction of a High Level Bridge across Chitravathi River and formation of SH-31 above FRL of Gandikota Reservoir, were taken up. As informed, the works were completed and the alternate road was inaugurated on 06-06-2018.

2.7. Present Status of the GNSS Project, Phase-II As informed by the UA, the GNSS Phase-II works are divided in to 14 Packages, out of which 1 to 7 Packages fall in Kadapa District and 8 to 14 Packages fall in Chittoor District. As informed, the state Government of A.P. have accorded administrative approval for GNSS Phase & ndash II for Rs. 2525.91 Crores vide G.O. Ms. No.50, dated 25-03-2008. The works are in progress and are expected to be completed in 2019.

2.8. Details of requirement of Forest Lands under the GNSS project The User Agency could not provide the details of forest Lands required /diverted for the execution of GNSS Phase & ndash I. However, the UA has submitted the following details on the requirement of Forest Lands for the GNSS phase-II -

Details of Package wise Forest Land Requirement in Kadapa & Chittoor Districts (GNSS phase-II)

				in Ha
Sl.No	Name of District	Name of Project	Forest Land for which clearance sought	Forest clearance Received so far
1	Kadapa	GNSS Phase-II	1275.4	0
		Pacakge-01	0	0
		Pacakge-02	101.24	Recommended by the REC for FC subject to receipt of clarification.
		Pacakge-03	433.88	Recommended by the REC for FC subject to receipt of clarification.
		Pacakge-04	431.28	0
		Pacakge-05	309	0
		Pacakge-06	183.73	0
		Pacakge-07	0	0
2	Chittoor	Package- 8	11.84	0

		Package- 9	265.13	0
		Package- 10	359.75	0
		Package- 11	473.00	0
		Package- 12	0.00	0
		Package- 13	430.00	0
		Package- 14	0.00	0

3. DETAILS ON THE AREAS CURRENTLY PROPOSED FOR DIVERSION As per the subject proposal, the UA has requested for diversion of 730.88 ha of forest land for construction of Sri Balaji and Mallemadugu Reservoirs as well as the Kailasagiri canal, under packages 10 & 11 of the GNSS project Phase-II, in Chittoor district. The proposed areas fall under the jurisdiction of the WLM Division, Tirupati and the Chittoor East (WL) Division.

3.1. PURPOSE WISE BREAK-UP OF FL PROPOSED FOR DIVERSION The UA has reported the following requirement of Forest lands

FOR SRI BALAJI RESERVOIR (Package 11 of GNSS Phase-II)

Foreshore submergence	460.06 ha
Bund portion	16.43 ha
Sluice area	0.17 ha
Total FL required	476.66 ha

FOR MALLEMADUGU RESERVOIR (Package 10 of GNSS Phase-II)

Foreshore submergence	118.09 ha
Total FL required	118.09 ha

FOR KAILASAGIRI CANAL (Package 10 of GNSS Phase-II)

For Canal	136.13 ha
Total FL required	136.13 ha

3.1.1. As reported, Sri Balaji Reservoir is proposed for storing 3 TMC of water, out of which 1 TMC is intended to cater to the drinking water needs of Tirupati and Tirumala in future and 2 TMC is intended to be stored as a supplement to Mallemadugu Reservoir. It is stated that Sri Balaji Reservoir has a self-catchment of 1 TMC. For this reservoir, an extent of 476.66 ha of RF land is required under Karakambadi RF. The bund of the reservoir is falling outside the RF to an extent of 60% and most of the FL requirement is due to submergence at Full Reservoir Level. Most of the Mallemadugu reservoir area lies over non forest land except the 118.09 Ha. of forest land required under Krishnapuram RF. It is stated that the existing reservoir with a storage capacity of 0.16 TMC is now proposed to be augmented to attain a storage capacity of 2.65 TMC.

3.1.2. As reported, the Kailasagiri canal takes off from the right flank of Mallemadugu reservoir for a total length of 65.500 km out of which a part runs through the forest lands. Mallemadugu Reservoir and the Kailasagiri canal are

intended to provide irrigation facilities to an extent of 51050 acres in addition to stabilization of 3950 acres, duly drawing 2 TMC of water from Sri Balaji reservoir. An extent of 136.12 ha of RF land is required under Nagalapuram, Ramapuram and Adhavaram RFs for the canal.

3.2. **Diversions proposed under WLM Division, Tirupati** Details of the forest lands proposed for diversion are as follows

Division	Range	Name of the RF & Beat	Compt. No	Area & Remarks
WLM Division, Tirupati	SVNP, Tirupati 594.75 Ha	Karakambadi RF, Karakambadi Beat	145, 146, 147, 148, 149 & 150	For Sri Balaji Reservoir 476.66 Ha
Krishnapuram RF, Krishnapuram Beat	153,154 & 155	For Mallemadugu reservoir 118.09 Ha		
Total		594.75 Ha		
<p>Legal Status</p> <p>1) Karakambadi R.F. Notified U/s 15 of A.P.Forest Act, 1967, Dt 27.01.1979.</p> <p>2) Krishnapuram R.F. Notified U/s 15 of A.P.Forest Act, 1967, Dt 29.11.1976.</p>				

3.3. **Diversions proposed under Chittoor East (WL) Division** Details of the forest lands proposed for diversion for the Kailasagiri canal, are as follows

Range	Name of the RF	Compt. No.	Area in Ha.	Legal Status
Tirupati	Ramapuram	206	7.94	Ramapuram RF notified U/s 15 of A.P.Forest Act,1967 vide G.O.Ms. No.1568, F& A Dept., Dt.29.07.1968.

205	19.25			
Total		27.19		
Srikalaha-sti	Ramapuram	202	21.92	
201	18.85			
200	20.68			
228	22.39			
Total		83.84		
	Ramapuram RF Total	111.02		
Puttur	Nagalapuram	288	3.40	Nagalapuram RF notified U/s 15 of A.P.Forest Act,1967 vide G.O.Ms. No.736, Dt.17.05.1972
289	12.56			
290	6.60			
291	2.55			
Total		25.11		
Nagalapuram RF Total	25.11			
	Grand Total	136.13		

3.4. Forest types, Flora & Fauna

3.4.1. The DFO, WLM Division, Tirupati has reported that forests in the area proposed for diversion for Balaji Reservoir

fall under 5A - Southern dry Mixed Deciduous Forests with a patch of evergreen forests and C3-Dry Mixed Thorny Scrub forests. It is reported that the forests in the areas proposed for diversion for Mallemadugu reservoir fall under 5A - Southern dry Mixed Deciduous Forests and Southern Thorn Scrub Jungle in plain areas. The canopy density of the existing vegetation in these areas is 0.4- 0.5. Presence of the following species is recorded in the areas proposed for diversion - *Hardwickia binata*, *Pterocarpus santalinus*, *Terminalia chebula*, *Holoptelea integrifolia*, *Albizia amara*, *Dolichandrone crispa*, *Bauhinia racemosa*, *Grewia rotundifolia*, *Strychnos nuxvomica*, *Syzygium cumini*, *Dalbergia paniculata*, *Gyrocarpus asiaticus*, *Lannea coramandalica*, *Derris indica*, etc.. It is reported that spotted Deer, Peacock, Snake, Hare and Wild Boar are commonly present in this area while Panther, Sloth Bear and Grey Jungle Fowl are rare. The local forest officials stated that the two reservoirs would help the cause of wildlife conservation as the resultant water body would have the potential to attract and sustain a larger population of wildlife including elephants besides improving the water table in the nearby RFs.

3.4.2. The DFO, Chittoor East WL Division, has reported that forests in the areas proposed for diversion for Kailasagiri canal fall under 5A - Southern dry Mixed Deciduous Forests with occurrence of Southern Thorn Scrub Jungle in the plains. Presence of the following species is recorded in the areas proposed for diversion - *Diospyros melanoxylon*, *Acacia chundra*, *Acacia nilotica*, *Albizia amara*, *Azadirachta indica*, *Bambax malabaricum*, *Bauhinia racemosa*, *Cassia fistula*, *Chloroxylon swietenia*, *Dalbergia paniculata*, *Dichrostachys cinerarea*, *Diospyros melanoxylon*, *Dolichandrone crispa*, *Ficus arnotiana*, *Gyrocarpus americanus*, *Lannea coromandelica*, *Lannea grandis*, *Limonia alata*, *Lufa acutangula*, *Mimosa amara*, *Peltophorum*, *Phyllanthus emblica*, *Pongamia glabra*, *Pterocarpus santalinus*, *Rhamnus xylopyrus*, *Syzygium alternifolium*, *Terminalia chebula*, *Terminalia punctata*, *Wrightia tinctoria*, *Zizyphus xylopyrus*, etc. The canopy density is 0.2. It is reported that spotted Deer, Peacock, Snake, Hare and Wild Boar are commonly present in this area.

3.4.3. As per records, enumeration was carried out by laying sample plots and details of species, numbers, volume, etc. have been provided girth class wise, for each of the sample plots. The **Enumeration list** of trees located in the forest areas proposed for diversion has been uploaded in the web portal. The abstract data pertaining to Chittoor East WL Division indicate that 36002 trees are in the girth class of < 30 cm and the species present include *Rhamnus xylopyrus*, *Manilkara hexandra*, *Pongamia glabra*, etc. 11283 trees have been recorded in the 30-60 cm GBH with species like *Rhamnus xylopyrus*, *Dolichandrone crispa*, *Diospyros melanoxylon*, *Lannea coramandelica* being dominant. *Eucalyptus* sps and *Dalbergia paniculata* are recorded in the higher girth classes. Similarly, the data pertaining to WLM Division, Tirupati indicate that 45957 trees are in the girth class of < 30 cm and the species present include *Strychnos potatorum*, *Momusops hexandra*, *Diospyros melanoxylon*, *Buchanania lanzan*, *Albizia amara*, *Anoegesis latifolia*, *Zizyphus xylopyrus*, etc. 108926 trees of the same species are recorded in the 30-60 cm GBH. *Holoptelea integrifolia*, *Lannea coramandalica*, *Dalbergia paniculata*, etc are recorded in the higher girth classes. In both divisions, Red Sanders is reported to be present within the areas proposed for diversion with trees up to 90 cm GBH and the Kailasagiri canal would pass through an old plantation of Red Sanders in Compartment no 228, Thimma Samundram Beat, Ragikunta section in SriKalahasti Range.

3.4.4. The proposed alignment of the Kailasagiri canal is passing through the forests causing physical fragmentation. However, it is stated by the local forest officials that only small animals listed above are found in the proposed FL and that the project is expected not to have much negative impact on the wildlife. Hence, neither a wildlife conservation/management plan nor any dedicated Eco bridge has been proposed by the Forest Department.

3.5. It is reported by the DFOs concerned that the forest lands proposed for diversion under the current proposal do not fall in any Wildlife sanctuary, National Park, Biosphere Reserve, Tiger Reserve, Elephant Corridor etc., but for a part which falls within the Eco sensitive Zone of the Sri Venkateshwara Wildlife Sanctuary. However, DSS analysis done at this Regional Office indicates that a part of the FL falls within the said Wildlife Sanctuary. This needs to be clarified by the State Government. It is reported that no archeological /heritage site/Defense establishment or any other important monument is located in the area.

3.6. **ROFR ACT, 2006 Certificate and claims** It is seen that necessary certificates issued by the concerned district Collector under RoFR Act, 2006 have been uploaded in the online portal.

3.7. **COMPENSATORY AFFORESTATION OVER NFL** Against the proposed diversion of 730.88 Ha under the current proposal, an area of 991.88 Ha of non-forest land has been identified for carrying out Compensatory Afforestation. The details of the Revenue lands proposed for Compensatory Afforestation are as under

Sl. No.	Name of Revenue Village, Range, Mandal	Reference to existing RF	Survey No.	Total Extent in Ha	CA extent in Ha
1	Bandrevu, Madanapalle, Peddamandyam	Separate big block, Nearby RF is T.Sadukonda (C.No.68) at 3 Kms	529	170.51	165

2	Kalicherla, Madanapalle, Peddamandyam	Abutting Musallkunta RF Compt.No.69	1	167.16	155
3	Chittiboyana pallo, Madanapalle, Gurramkonda	Abutting Sangasamudram RF Compt.No.58	82	117.02	75
4	Cherlopalle Madanapalle, Gurramkonda	Abutting Sangasamudram RF Compt.No.58	259	270.22	205
5	Reddivaripalle, Madanapalle, Nimmanapalle	Separate big block, Nearby RF is Noorukuppala-konda at 105 Kms	510	266.97	150
			Total	991.88	750

Out of 991.88 Ha of non-forest land identified, 750 Ha is reported to be suitable for CA. The identified CA lands either occur as a single larger forest patch or are located adjoining existing reserved forests in Madanapalle range. The soil type in these CA lands is generally gravel with small sized boulders and some sheet rocks. Planting of tall seedlings using transported tank silt/imported soil and farmyard manure has been proposed, apart from SMC works. A financial outlay of Rs.4780 lakhs including 10 years of maintenance has been proposed. The following treatments are proposed -

- i) Plantation under Semi Mechanical Method (SMM) Planting of seedlings in 45 CM³ pits, at a spacing of 3x3 Mt resulting in 1111 No of plants per Ha and covering 165 Ha of the CA land.
- ii) Plantation under Labour Intensive Method (LIM) Planting in 0.75 CM³ pits, at a spacing of 4 x4 Mt resulting in 625 No of plants per Ha and covering 250 Ha of the CA lands.
- iii) The existing tree growth component is proposed to be treated with tending & singling operations coupled with SMC works. The available gaps are proposed to be planted with Non-Timber Secondary Hardwood Species at about 200 plants per Ha. An area of 335 Ha is proposed to be treated under this method.
- iv) The balance area of 241.88 Ha having natural tree growth at hilltops is proposed to be kept under protection with suitable treatment of singling out apart from SMC works.

3.8. CM & CD works/Structures proposed in Forest Areas The following structures are proposed for construction over the Kailasagiri canal by the UA within the FL proposed for diversion, for the purposes of the project. The UA has expressed its readiness to alter the location as well as dimensions of these CM& CD structures, if required, in consultation with the Forest Department, so that these structures would serve also as passages for animal movement.

S.No	Chainage @ KM	Type of Structure	Modifications Proposed by the UA in the interest of wild Animals
1-8	29.525 30.100 30.375 32.650 37.490	Under Tunnel	Cattle ramp will be provided for free movement of wild animals at structure crossing if the height of the structure is less than 1.5m

	38.350 38.975 41.875		
9-10	35.815 41.345	Aqueduct	Wild animals and other animals can freely pass through the structure as the vent size is more than 2.0m height.
11-12	39.625 40.970	Single Lane bridge	Wild animals, other animals and inspection vehicles can use the single lane bridge.
13-15	40.465 40.820 44.095	Super Passage	As the canal runs below the ground and the natural drain is above the canal, slab will be provided over the canal so that animals can easily pass over the structure without hindrance.

3.9. CATMENT AREA TREATMENT PLAN In order to address concerns of erosion in catchment areas of the two proposed reservoirs and for Soil Moisture Conservation (SMC), the UA has submitted CAT plan in respect of each of them. In case of Sri Balaji Reservoir, the proposed CAT plan is at a cost of Rs. 203.3 Lakhs and in case of Mallemadugu Reservoir it is at a cost of Rs. 513.6 Lakhs. In these plans, undertaking SMC works and developing limited forest infrastructure have been proposed.

3.10. JUSTIFICATION SUBMITTED BY THE UA FOR THE PROPOSED DIVERSIONS The UA has submitted that, in case of Sri Balaji reservoir and Mallemadugu Reservoir, diversion of Forest Land is required mainly because of submersion of the existing Forest lands. In case of Kailasagiri Canal, the alignment runs in the reserved forests in part. The UA has stated that alternatives were examined to avoid the forest land but as the canal is a gravity canal it becomes inevitable to run the canal in a particular+100.000 contour and since the forest band width has come across the canal alignment there is no other way except to run the canal through the forest land. Further, it is stated that the width of diversion proposed in the forest area has been minimized to the extent possible. It is projected that, after excavation of canal and successive charging of the canal, the ground water would increase in the nearby areas to the benefit of flora and fauna. The UA has informed that an inspection path will be constructed on the side of the canal and that the dug out material will be dumped on both sides as & lsquo spoil Banks& rsquo . Width of the proposed forest acquisition for the canal is 65.00m that includes inspection path width, catch drain width and the spoil bank width.

4. OBSERVATIONS ON THE PROPOSAL DOCUMENTS Following clarification/ additional information are required from the State Government in respect of the 2 project proposals

a. The Environment Clearance obtained for the whole GNSS project in the year 2006 had expired. The State Government/UA shall obtain extension of validity.

b. DSS analysis done at this Regional Office indicates that a part of the FL proposed for diversion in WLM division, Tirupati falls within the Sri Venkateshwara Wildlife Sanctuary this needs to be verified by the State Government and WL clearance , if required, shall be obtained.

5. Details of the sites inspected

Sl. No	Details of the areas inspected
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	Site Inspections done on 5th December, 2018
1	Inspection of Forest land proposed for Diversion in Karakambadi R.F. for Sri Balaji Reservoir, under Package 11, Phase II of GNSS.
2.	Inspection of Forest land proposed for Diversion in Krishnapuram R.F. at for Mallemadugu Reservoir, under Package 10, Phase II of GNSS.
	Site Inspections done on 6th December, 2018
3.	Inspection of CA land in Sy No. 510 of Reddivaripalle village of Nimmanapalle Mandal, falling in Madanapalle Range under Chittoor West division. (Total extent 266.97 Ha)
4.	Inspection of CA land in Sy No. 529 of Bendrevu village of Peddamandyam Mandal, falling in Madanapalle Range under Chittoor West Division. (Total extent 170.51 Ha)
5.	Inspection of CA land in Sy No. 1 of Kalicherla village Peddamandyam Mandal, falling in Madanapalle Range under Chittoor West Division. (Total extent 167.16 Ha)
	Site Inspections done on 7th December, 2018
6.	Inspection of Forest land proposed for Diversion in SriKalahasti Range of Chittoor East WL Division, for Kailasagiri canal.

6. Observations on the Forest Lands (FL) proposed for diversion

6.1. Details of forest lands proposed for diversion under Package 10 & 11 are mentioned in Paras 3.1, 3.2 and 3.3. These forest lands had already been inspected and recommended by officers in the state Forest Department for diversion after due verification in the field. Few random spots of these forest lands have been inspected by the undersigned during 05th-07th November 2018, as indicated in the above table.

6.2. It is seen that the forest lands proposed for diversion are required mainly for the purpose of construction of two Reservoirs and one gravity canal. The UA has justified the requirement of forest land and the alignment of canal as mentioned in Para 3.10. No dedicated structure has been proposed for the movement of animals across the canal. However, the UA has proposed to have Cross Masonry & Cross Drainage (CM& CD) structures at various locations across the canal.

6.3. The UA has certified that the requirement of FL proposed is unavoidable and the barest minimum.

6.4. The UA is required to address the concerns raised in Para 4.

6.5. **Violations** The officers of the State Forest Department have informed that no FC Act violation has taken place under this project.

7. OBSERVATIONS ON THE NON-FOREST LANDS PROPOSED FOR CA

7.1. Under GNSS Phase II, Package 10 & 11, against the proposed diversion of 730.88 ha. of FL, the User Agency has identified 991.88 Ha of NFL located in five villages as listed in Para 3.7. As reported, the additional area is proposed in order to compensate for the presence of sheet rock portion and the areas not suitable for planting. These 5 NF lands had been inspected by officers of the Forest Department certified for its suitability and accepted by the State Forest Department for CA. Out of 991.88 Ha of non-forest lands identified, 750 Ha is reported to be suitable for CA. Random spots in 3 of the the above 5 patches of NFL, located in Reddivaripalle village (266.97 Ha), Bendrevu village (170.51 Ha) and Kalicherla village (167.16 Ha) were inspected by the undersigned on 06.12.2018. The soil in these patches is generally hard gravel mixed with small sized boulders. Some parts of the NF lands have good tree cover existing. A CA scheme including 10 years of maintenance has been proposed with a financial outlay of Rs. 4780 lakhs. It is proposed to use transported soil for planting, where required. About 165 Ha of the CA area is proposed to be treated under Semi Mechanical Method (SMM) of planting about 250 Ha under Labour Intensive Method (LIM) of planting about 335 Ha by undertaking tending & singling operations coupled with SMC works while the remaining 241.88 Ha is proposed to be kept under protection with SMC interventions.

8. SUGGESTIONS/ RECOMMENDATIONS

8.1.The identified NFLs have been inspected by the concerned DFOs for its suitability for raising Compensatory Afforestation and accepted by the State Government. These NFLs occur either as bigger individual patches or located adjacent to the existing RFs and thus are suitable for the purposes of management. Hence, **all 5 patches of NFLs proposed for CA are recommended for acceptance while insisting on the following conditions**

a) the FD shall additionally undertake canal bank plantation on both sides of the Kailasagiri canal and plant suitable native species on the & lsquo spoil banks& rsquo , with funds to be collected from the UA.

b) the FD shall ensure planting of adequate number of Red Sanders to compensate for the felling of this endangered species.

8.2.The present proposal for diversion of FL is a part of a larger GNSS irrigation project in which Phase I as well as some packages of Phase II have been reportedly completed already or nearing completion. The UA has submitted justification for the proposed diversions as mentioned in Para 3.10 and the state authorities have certified that the requirement of forest land is unavoidable and the barest minimum for the project. The local forest officials have stated that the 2 proposed reservoirs would help attract and support more wild animals and improve the water table in the nearby forest lands. Hence, in the background of the benefits that are expected out of this irrigation cum drinking water project to the society at large, **it is recommended that the current proposal for diversion of the forest lands may be considered for grant of clearance under FC Act** (after ensuring that the concerns mentioned in Para 4 are addressed by the UA), **by imposing suitable conditions, including the following**

a) the State Govt. shall ensure that implementation of the 2 CAT plans for the 2 reservoirs is monitored by constituting a high-level committee with representation from the Regional Office.

b) the User Agency shall ensure that adequate CM& CD structures with suitable dimensions are located in the area proposed for diversion for the Kailasagiri canal, in consultation with FD, to ensure that these CM& CD structures also serve as Eco-bridges for animal movement.

9. **Photographs** Relevant Photographs are enclosed in Annexure-I.

Comments of Additional Information By :

i. TO Remarks

1. As per online application form of Part-I column A-1(x) Total period for which the forest land is proposed to diverted (in years) - is given **nil**.

2. As per page no. 317/c summary of DSS analysis Report It is reported that Proposed Forest area for diversion falls under inviolate Zone based on Decision Rule No. 1

because proposed forest patch for construction of Sri Balaji Reservoir is completely falling in the Sri Venkateswar Wildlife Sanctuary whereas another proposed forest patch for the construction of MalleMadugu Reservoir is located at a distance of 273.68 Meter from the Sri Venkateswar Wildlife Sanctuary boundary & also a wetland of more than 10 Ha size exist within 250 meter distance from the MalleMadugu Reservoir site which is proposed for diversion. Thus, total 597.10 Ha area of forest land which is proposed for diversion is falling under Inviolate Zone based on DSS Decision Rule 1. The State Government may clarified that the WL clearance is required or not.

3. In the instant proposal two types of forest land are involved i.e. linear and non-linear. 594.75 ha of forest land is proposed in WLM Tripulai Division for construction of two reservoirs (Balaji and Mallemadugu) and 136.13 ha of forest land is proposed in WL Chittoor East Division for construction of Kailashgiri Canal. The land use plan of the proposed forest land is as under

FOR SRI BALAJI RESERVOIR (Package 11 of GNSS Phase-II)

Foreshore submergence	460.06 ha
Bund portion	16.43 ha
Sluice area	0.17 ha
Total FL required	476.66 ha

FOR MALLEMADUGU RESERVOIR (Package 10 of GNSS Phase-II)

Foreshore submergence	118.09 ha
Total FL required	118.09 ha

FOR KAILASAGIRI CANAL (Package 10 of GNSS Phase-II)

For Canal	136.13 ha
Total FL required	136.13 ha

Grand Total 476.66+118.09+136.13 730.88 ha

4. As per the online application form in column no. 15 it is reported that EC is not required, but in the SIR it is reported that the EC had expired in 2006. The State Government/UA shall obtain extension of validity.

5. In this case UA has already ben provide the non-forest land of 991.88 ha in five patches for CA. Out of 991.88 Ha of non-forest land , 750 Ha is found suitable for CA. The Regional Office has inspected the non forest land proposed for CA and observed that the identified NFLs have been inspected by the concerned DFOs for its suitability for raising Compensatory Afforestation and accepted by the State Government. These NFLs occur either as bigger individual patches or located adjacent to the existing RFs and thus are suitable for the purposes of management. Hence, **all 5 patches of NFLs proposed for CA are recommended for acceptance while insisting on the following conditions**

a) the FD shall additionally undertake canal bank plantation on both sides of the Kailasagiri canal and plant suitable native species on the & lsquo spoil banks& rsquo , with funds to be collected from the UA.

b) the FD shall ensure planting of adequate number of Red Sanders to compensate for the felling of this endangered species.

6. Total Command area of the project is not given.

7. As per the online application form it is reported that 3,96,813 total no. of trees are to be felled. In WLM Tirupat Division is 3,48,921 and 47,892 in WL Chittoor Division and same is retained. As per SIR total 2,02,168 no. of trees are to be felled. This is required to be clarify.

8. .As paer SIR of Regional office Chennai it is reported that the proposed alignment of the Kailasagiri canal is passing through the forests causing physical fragmentation. However, it is stated by the local forest officials that only small animals listed above are found in the proposed FL and that the project is expected not to have much negative impact on the wildlife. Hence, neither a wildlife conservation/management plan nor any dedicated Eco bridge has been proposed by the Forest Department.

9. As per the Convention on International Trade of Endangered Species of Wildlife Floura and Fauna (CITES) Red sanders is listed in-Apendix-II. **In both divisions, Red Sanders is reported to be present within the areas proposed for diversion with trees up to 90 cm GBH and the Kailasagiri canal would pass through an old plantation of Red Sanders in Compartment no 228, Thimma Samundram Beat, Ragikunta section in SriKalahasti Range. Same may be clarified from the State Government.**

10. Approved CAT plan is not given.

11. In the CA component at page no. 276/c it is proposed that for inspection of works and monitoring one Scorpio, One Bolero and one Innova

In view of the above, It is proposed that the proposal along with SIR done by Regional Office Chennai may be placed before the Forest Advisory Committee (FAC) in its forthcoming meeting scheduled to be held on 21st February, 2019 for its examination and appropriate recommendations.