

Proposal for diversion of forest land under Forest (Conservation) Act, 1980 and Wildlife (P) Act, 1972:

After examination of various alternatives and as per the hydraulic parameters, AMRSLBC tunnel scheme has been finalised in 1993. In this scheme, there are mainly four components. They are Tunnel-I, Tunnel-II, Dindi balancing Reservoir & Open canal. In the AMRSLBC tunnel scheme, Dindi balancing reservoir is one of the important component which is a vital link between two tunnels. Before finalising the alignment of tunnel scheme for balancing reservoir two alternatives were examined.

Alternative No.1: The feasibility of having a reservoir near Bollaram (V) was examined keeping in view of narrow gorge and good sheet rock exposed in river bed available at this site. But in view of huge dead storage of about 354 million cubic meter (12.50 TMC) and evaporation losses of 56.6 million cubic meters (2.0 TMC) that would be involved in such big reservoir of this type of huge cost. Besides having a large submergence area (about 7000 Ac) which including forest land (about 1000 Ac), due to this detailed investigation of this reservoir is not carried out hence the proposal was dropped.

Alternative No.2 The feasibility of a balancing reservoir near Mothia Thanda (V) has been selected as per the hydraulic parameters and keeping in view of availability of good sheet rock exposed in the riverbed and minimum length of dam. The dam is proposed abutting in between two hillocks on either side. The bed of rock stretching for a length of 400m is suitable for good foundation of the gravity dam with over flow section. In the downstream of the river, quite a long length of solid sheet rock is exposed having additional advantage. The submergence caused due to impounding water is very much less (about 3735 Ac) which includes 696.649 Ac (281,9302 Ha) forest land. The capacity of the reservoir is 7.64 T.M.C. the submergence area of these reservoir is less than the alternative-1. As less forest area is required for diversion thereby minimising the adverse effect on flora & fauna. Hence alternative -2 proposal was finalised.

The alignment of AMRSLBC tunnel scheme was finalised as per the recommendations of the constituted committee formed by the Government of Andhra Pradesh vide G.O.Rt.No.211, EFES&T(ENV) Department dated 18.8.1991 to take up the study of ecological and Environmental impact and to suggest measures to avoid adverse effect. As per the recommendations of the committee, alignments of AMRSLBC tunnel scheme is fixed considering the ecological and environmental aspects. The existing AMRSLBC tunnel scheme is already granted permission for survey and execution of SLBC underground tunnels through the forest area from Ministry of Environment and Forest of government of India vide letter No 8-73/93FC dated 21.04.94 under section 2 of Forest conservation Act 1980. Further the environmental clearance was obtained vide letter No.j.1106.13/85-1A-1 dated 22.04.1994 from the Ministry of Environment and Forest, Government of India. As the tunnels are passing underground at a depth of 27Mts to 400 Mts below the surface of Nagarjunasagar -Srisalam Wild life sanctuary, the Chief wild life warden of Andhra Pradesh state had issued No objection Certificate on 26-10-1993. Based on the NOC issued by the Chief Wild life warden, the project proponent had moved to the Hon'ble Supreme Court of India in I.A.NO 2059 in W.P.(C) NO 202/1995. The Hon'ble Supreme court vide its order dated 24-10-2008 cleared the project subject to fulfilling of certain conditions laid down there in. All the conditions have been complied with. Accordingly, the execution of Tunnel-I and Tunnel-II in the

AMRSLBC tunnel scheme is under brisk progress and 70% of work is completed. Proposed Dindi balancing reservoir is one of the component of AMRSLBC scheme which is a vital link between these two tunnels.

The alignment of tunnels are fixed as per the hydraulic parameters and environmental aspects. There is no alternative site except forming the balancing Reservoir at Mothia Thanda. As the tunnel work is not completed, diversion of roads falling under submergence of Balancing Reservoir were not taken up so far and as such present proposals are submitted for diversion of forest lands and Wild life habitat in taking up construction of the balancing reservoir in the circumstance enumerated above, as alignment of tunnels has been finalised long back, there is no alternative alignment for the balancing reservoir except the one proposed.

The diversion of forest land to the minimum requirement is worked out as per the hydraulic parameters and extent of forest land required is as follows.

S.No	Name of the District	Name of the forest Division	Name of the Reserve Forest	Extent of Area (in Ha)	Extent of area falling in Core Area of ATR (in Ha)		Extent of area falling in Buffer Area of ATR (in Ha)		Extent of area falling in ESZ of ATR (in Ha)	
					For Submergence	For Roads	For Submergence	For Roads	For Submergence	For Roads
1	2	3	4	5	6a	6b	7a	7b	8a	8b
1	Nalgonda	Nagarjuna Sagar WL	Nidgul	251.9498	193.8587	6.3475	0	0	48.0835	3.6601
2	Nagar Kurnool	Achampet	Ghanpur	29.9804	0	0	17.4152	5.628	6.2606	0.6767
TOTAL :				281.9302	200.2062		23.0432		58.6808	

As indicated above the detailed purpose wise breakup of area proposed for diversion is as follows:-

Area under submergence :-

Area falling in Nagarjuna Sagar Wild Life Division in ATR:	193.8587 Ha
Area falling in Nagarjuna Sagar Wild Life Division ESZ of ATR:	48.0835 Ha
Area falling in Achampet Wild Life Division in ATR:	17.4152 Ha
Area falling in Achampet Wild Life Division ESZ of ATR:	6.2606 Ha

Total: 265.618 Ha

Area proposed for Roads of 20 M width with 7mts carriage way (BT)

Area falling in Nagarjuna Sagar Wild Life Division in ATR:	6.3475 Ha
Area falling in Nagarjuna Sagar Wild Life Division ESZ of ATR:	3.6601Ha
Area falling in Achampet Wild Life Division in ATR:	5.6280 Ha
Area falling in Achampet Wild Life Division ESZ of ATR:	0.6767 Ha

Total: 16.3122 Ha

Total Area under Submergence: 265.6180

Total Area for diversion Roads: 16.3122

Total Area for Diversion = 281.9302 Ha

As per the provision of the Forest (Conservation) Act, 1980 and the Rules, Guidelines, Circulars issued therein, the user agency who wants to use any forest land for non-forest purpose, the proposals shall be submitted for the entire project in totality to the concerned Nodal officer authorized by the State Government i.e., Principal Chief Conservator of Forests, Hyderabad, Telangana. The total requirement of diversion of forest land is of about **281.9302** ha.

The ETS & DGPS/ GNSS Survey for the forest areas proposed for diversion has been carried out and the data was submitted to the Forest Department. The same were authenticated by the Forest Department. The lengths of the alignment and the extent of the forest area involved is estimated as per the ETS & DGPS/ GNSS Survey data by ascertaining the entry & exit points of alignment with RF, as furnished in the above table.

The alignment of the water conveyor system is marked on the toposheet of 1:50000 scale. The alignment is also marked in the field with boundary stones. The actual involvement of forest land and its extent is ascertained after joint field inspection with forest authorities.

- i. **Forest Land involved in Nalgonda Forest Division:** The Forest land is covered in Nalgonda district

S.No	Name of the District	Name of the forest Division	Name of the Reserve Forest	Extent of Area (in Ha)	Extent of area falling in Amrabad Tiger Reserve (in Ha)	Extent of area falling in Eco-Sensitive Zone of ATR (in Ha)
1	2	3	4	5	6	7
1	Nalgonda	Nagarjuna Sagar WL	Nidgul	251.9498	200.2062	51.7436

- **Forest Land involved in Nagarkurnool Forest Division,**


S.No	Name of the District	Name of the forest Division	Name of the Reserve Forest	Extent of Area (in Ha)	Extent of area falling in Amrabad Tiger Reserve (in Ha)	Extent of area falling in Eco-Sensitive Zone of ATR (in Ha)
1	2	3	4	5	6	7
1	Nagarkurnool	Achampet	Ghanpur	29.9804	23.0432	6.9372

Details of non-forest CA lands: Non-forest CA Land was identified by concern authorities and ETS & DGPS/ GNSS survey was to be carried out by user agency and the data to be authenticated by forest department. Survey work is under process

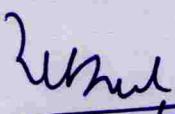
This Project proposal **doesn't involve any places of historical, religious, archaeological, recreational importance.**

- a. The diversion of forest land shall not be used for any other purpose other than specified in the proposal i.e., for the purpose of AMRSLBC Project Tunnel Scheme of Dindi Balancing reservoir.
- b. **The required check slips as per Forest (Conservation) Act, 1980 are furnished as follows:**
 - i. Annexure – I along with Part-I, II, III, IV and V in both Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 formats.
 - ii. Undertaking for depositing funds towards raising & maintenance of Compensatory afforestation (including raising and maintenance of plantations, aided natural regeneration, SMC works etc.)
 - iii. Undertaking for depositing funds towards payment of Net Present Value (NPV) and Additional NPV.
 - iv. Undertaking for depositing funds towards payment of extraction of tree growth.
 - v. Certificate of Area Minimum.

- vi. Detailed statement requirement of forest land.
- vii. Map in SI sheet showing the forest land.
- viii. ETS & DGPS/GNSS survey data and maps for forest land proposed for diversion as well as CA land.
- ix. Certificate for non-violation of Forest (Conservation) Act, 1980.


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28/8/12
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