COST BENEFIT ANALYSIS

1. The area covering the portion of "Excavation of Somasila Swarnamukhi Link canal from km 69.150 to km 69.575,km 70.150 to km 72.400, km73.000 to km74.100,km 75.460 to km 76.140, Inlet structure at km 56.000 and Inlet structure at km 72.950" in Venkatagiri Hill Reserve Forest and Inagaluru Reserve Forest in Venkatagiri and Srikalahasti range of SPSR Nellore and Chittoor Districts.

Benefits:

1. Providing drinking water for enrooted villages along the canal.
2. Providing Irrigation for stabilization of 78464 acres in SPSR Nellore and Chittoor Districts . Providing Irrigation for 12000 acres of new ID ayacut in Chittoor District.

Conclusion:

Somasila Swarnamukhi Link Canal is intended to provide Irrigation facilities to the high level layout situated on Right side of S.S.G. Canal, which is not commendable by S.S.G. Canal existing under 203 M.I. Tanks in Nellore and Chittoor Districts. The total stabilization of ayacut contemplated under the scheme is 78464 Acres by 4.004 TMC of Pennar Flood Waters and local catchment water and also Providing drinking water facility to 2.50 Lakh population in enrouting mandals (0.20 TMC) and designed with B.C. ration 1.83 @ 10% interest on capital outlay as against the lower limit of 1.0 fixed for scarcity areas. The benefits far out weight the costs. It will give an opportunity for the villagers to sustain in cultivation and irrigation as well as drinking water facility as this is a drought prone area. There is no alternative except through this forest portions.

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Annexure VI-(a)

COST BENEFIT ANALYSIS

CATEGORY OF PROPOSALS FOR WHICH COST BENEFIT ANALYSIS APPLICABLE.

S.No	Nature of Proposals	Applicable/Not Applicable	Remarks
1	2	3	4
1	All category of proposals involving Forest land less than 2 Ha in hills	Not Applicable	
2	Proposals for dense installation purposes and oil prospecting (proposals only)	Not Applicable	
3	Habitation, Establishment of industrial units, tourist lodges/Complex and other building constructions	Not Applicable	
4	All other proposals involving forest land more than 5 Ha in plains and more than 2 Ha in hills including roads, Transmission lines, Minor and Major Irrigation projects, Mining activity, Hydel projects, Railway lines located specific installations like micro wave stations, Auto repeater centres, TV towers etc.	Not Applicable	

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KOTHURU.

Annexure VI-(b)

PARAMETRES FOR EVALUATION OF LOSS OF FORESTS

S.No	Nature of Proposals	Roads, TR lines and Railway lines	Minor Irrigation Projects& quarrying of stones/metals	Medium and Major Irrigation Hydro electric large mining and others.
1	2	3	4	5
1	Loss of value of timber fuel wood and minor forest produce on annual basis including loss of man hours per annum of people who derive livelihood and wages from the harvest of these commodities	Not Applicable	Not Applicable	The proposed area is rocky type/with scattered thorny bushes which yield no timber or fuel and no loss to forest wealth and no loss of human hours.
2	Loss of animals husbandry productivity loss of fodder	Not Applicable	Not Applicable	There is no loss of animals husbandry and fodder in this area.
3	Cost of Human resettlement	Not Applicable	Not Applicable	Does not arise since there are no cases of rehabilitation of human under this project.
4	Loss of public facilities and administrative infrastructures (roads, Buildings, Schools, Dispensaries, Electrical lines Railways etc.,) on forest land if these facilities were diverted due to the project.	Not Applicable	Not Applicable	There are no administrative infrastructures (roads, Buildings, Schools, Dispensaries, lines Railways etc.,)
5	Environment losses, oil erosion effects of hydrological cycles, wildlife habitat micro-climate upsetting of ecological balance.	Not Applicable	Not Applicable	Nil
6	Suffering to Oustees	Not Applicable	Not Applicable	There are no oustees in the proposed area to be diverted.

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Annexure VI-(c)

COST BENEFIT ANALYSIS

PARAMETRES FOR EVALUATION OF BENEFIT NOT WITHSTANDING LOSS OF FORESTS

S.No	Nature of Proposals	Roads, TR lines and Railway lines	Minor Irrigation Projects& quarrying of stones/metals	Medium and Major Irrigation Hydro electric large mining and others.
1	2	3	4	5
1	Increasing in productivity attributable to the specified project	Not Applicable	Not Applicable	The project work only to provide drinking water to surrounding villages enrooted the canal and to Providing Irrigation for stabilization of 78464 acres SPSR Nellore and Chittoor Districts . Providing Irrigation for 12000 acres of new ID ayacut in Chittoor Districts
2	Benefits to economy	Not Applicable	Not Applicable	The benefit-cost ration works out to 1.83 at 10 percent interest on the capital outlay
3	Employment potentiality	Not Applicable	Not Applicable	Agricultural Employment to the cultivators in Providing Irrigation for stabilization of 78464 acres SPSR Nellore and Chittoor Districts . Providing Irrigation for 12000 acres of new ID ayacut in Chittoor Districts.
4	Number of population benifits	Not Applicable	Not Applicable	2.50 Lakhs population in 9 Mandals in SPSR Nellore and 3 Mandals in Chittoor Districts.
5	Cost of acquisition of facility of Non forest and wherever feasible.	Not Applicable	Not Applicable	Not Applicable
6	Loss of (a) Agriculture and (b) animal Husbandry production due to diversion of forest land	Not Applicable	Not Applicable	There will be no loss of Agriculture or animal husbandry due to this project in the proposed area to be diverted.
7	Cost of rehabilitation of the displaced	Not Applicable	Not Applicable	Does not arise as there are no displaced persons are

	persons as different from Compensatory amount given for displacement.			families due to this project in the proposed area to be diverted.
8	Cost of supply of free fuel wood to workers residing in or near forest area under the period of construction	Not Applicable	Not Applicable	Not Applicable

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GOVERNMENT OF ANDHRA PRADESH
WATER RESOURCES DEPARTMENT

Annexure-vi-c

COST BENEFIT ANALYSIS

1.PROJECT COST: 253.36 Crores

2.BENIFITS FROM PROJECT:

a. To irrigate an ID ayacut of 12000 Acres and Stabilization of 78464 Acres under 203 MI tanks in SPSR Nellore and Chittoor Districts.
b. Providing drinking water for enrooted villages along the canal.
c. Eradication of returning families from the area.
d. Improvements in ground water recharges and storages and resultant drought proofing of
e. Development of Pisiculture
f. Promoting industrial development in the command area
g. Improvements in socio economic conditions of the people and raising of living standards.
h. Development of orchards of plantations in the command area.

3. COST BENEFIT RATIO: 1.83

Somasila Swarnamukhi Link Canal is intended to provide Irrigation facilities to the high level layout situated on Right side of S.S.G. Canal, which is not commendable by S.S.G. Canal existing under 203 M.I. Tanks in SPSR Nellore and Chittoor Districts. The total stabilization of ayacut contemplated under the scheme is 78464 Acres by 4.004 TMC of Pennar Flood Waters and local catchment water and also Providing drinking water facility to 2.50 Lakh population in enrooting mandals (0.20 TMC) designed with B.C. ration 1.83 @ 10% interest on capital outlay as against the lower limit of 1.0 fixed for scarcity areas. The benefit far out weight the costs. It will give an opportunity for the villagers to sustain in cultivation and irrigation as well as drinking water facility as this is a drought prone area.

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EXECUTIVE ENGINEER
SSLC & SB DIVISION NO:3
KOTHURU.