

B.C. Ratio Calculations Statement

Receipts :

1.	Value of Gross Receipts of Farm Produce.	58989
2.	Add: During receipts @30% of Fodder (expenditure item below)	1236
3.	Add: Cost fodder Produce @ 2500 / Ha. (excluding Sun Flower = 0.648 Lakh Ha.)	1620

Gross Receipts: 61845

Expenses :

1.	Expenditure on Seeds.	
2.	Expenditure on Manure. As per separate Statement	
3.	Expenditure on Pesticides. enclosed.	6718
4.	Expenditure on Hired Labour.	
5.	Fodder expenditure @ 10% of the gross value of Produce excluding Sunflower (58989-17776) = 41213 x 0.10	4121
6.	Depreciation on Implements at 2.7% of Gross produce 58989.	1593
7.	Share and cash grant @ 3.5% on 58989	1829
8.	Land revenue	442
9.	Average expenditure on drought relief	-13

Total : 14690

Net benefits : 61845-14690 = 47185

Note : Land revenue is computed on value of produce excluding the holding of small and marginal formers which are exempted from ayacut of land revenue.

Apportionment of cost of Project between irrigation and Drinking water

Total water proposed to be drawn from Srisailam is 38.00 TMC and distribution is as follows :

i) Irrigation Requirements	23.45TMC
ii) Drinking water for Tirupati town	2.00 TMC
iii) Drinking Water for Tirupathi town	1.00 TMC
iv) Evaporation losses	7.55 TmC
	34.00 TMC

For Gandikota lift scheme – stabilization of B.C.ratio

4.00 TMC
Total: 38.00 TMC

The total cost is allocated between the drinking water and irrigation components :

Cost allocated for drinking water component :

Water carrying system is Canals

Cost of Reservoirs

	(Rs.in Crores)
1) Gandikota Reservoir	252.56
2) Vamikonda Sagar	126.27
3) Sarvaraja Sagar	156.58
4) Uddimadugu Reservoir	38.37
5) Mallimadugu Reservoir	95.81
6) Sri Balaji Reservoir	185.23
7) Padma Sagar	34.95
8) Srinivasa Sagar	17.40
9) Venugopala Sagar	133.00
10) Vepagunta Reservoir	28.90
11) Adavikothur Reservoir	56.51

Total: 1125.58 Crores

Total Cost of GNSS Project

Cost of Canals = 4541.29 – 1125.58

Total cost of Drinking water component of 3 TMC = (341571 x 3)/34 =

Cost of Irrigation component is 454129 – 30139 =

4541.29 Crores
3415.17 Crores
30139 Lakhs
423990 Lakhs.

B.C. Ratio Calculations
Considering the cost of Irrigation Component Only

(a)		(Rs. In Lakhs)
I.	Cost of the Project (Works) :	454128
II.	Land development charges at Rs.2000 per Ha for 1.052 Lakh Ha.	2104
	Total :	<u>456233</u>
	Annual Benefits :	
(b)	Annual Costs	-- 47155
i)	Interest at 4% on Rs.423990	-- 16960
ii)	Depreciation at 1% on Rs.423990	-- 4240
iii)	Annual Maintenance charges @Rs.250 per Ha on 1.052Lakh Ha.	-- 263
iv)	O & M for Head Works @ 1% on Rs.1844.57 Lakhs.	-- 1845
		<u>23308</u>
	B.C. Ratio 47155 / 23308 =	<u>2.023</u>

	(Rs. In Crores)
Details of Head Works :	
i) From Pothireddypadu Head Regulator to Owk Reservoir.	-- 1252.01
ii) Owk Reservoir to Gandikota Reservoir.	-- 340.00
iii) Gandikota Reservoir.	-- 252.56
Total :	<u>1844.57</u>