

## Godavari (Inchampalli) – Krishna (Nagarjunasagar) Link Project

### Salient Features

1.	Purpose	Diversion of surplus waters of Mahanadi & Godavari Rivers to Krishna basin
2.	Quantum of Diversion	16426 Mm <sup>3</sup>
3.	Enroute Irrigation	
i)	Annual Irrigation	287305 ha
	a) SRSP Stage – II	178055 ha
	b) SLBC	109250 ha
ii)	Annual utilization	1427 Mm <sup>3</sup>
	a) SRSP (Kakatiya St-II)	684 Mm <sup>3</sup>
	b) SLBC	743 Mm <sup>3</sup>
iii)	C.C.A.	411872 ha
	a) SRSP (Kakatiya St-II)	255264 ha
	b) SLBC	156608 ha
iv)	G.C.A.	503746 ha
	a) SRSP(Kakatiya St-II)	314308 ha
	b) SLBC	189438 ha
4.	Head Works	
A	Inchampalli dam (Proposed)	
	i) State	Andhra Pradesh
	ii) District	Karimnagar
	iii) River	Godavari
	iv) Catchment area	269000 km <sup>2</sup>
	v) Full reservoir level	112.77 m
	vi) Minimum draw down level	106.98 m
	vii) Gross storage at FRL	10374 Mm <sup>3</sup>
	viii) Live storage	4285 Mm <sup>3</sup>
	ix) Reservoir submergence	92555 ha

B.	Nagarjunasagar Dam(exisring)		
	i) State	Andhra Pradesh	
	ii) District	Nalgonda	
	iii) River	Krishna	
	iv) Catchment area	220705 km <sup>2</sup>	
	v) Full reservoir level	179.832 m	
	vi) Minimum draw down level	155.45 m	
	vii) Gross storage at FRL	11560 Mm <sup>3</sup>	
	viii) Live storage	5733 Mm <sup>3</sup>	
	ix) Reservoir submergence	28490 ha	
5.	Intermediate Reservoirs	RD (km)	Pond level (m)
	i) Pedda vagu	13.50	140
	ii) Lower Tummalagutta	26.50	176
	iii) Upper Tummalagutta	26.50	200
	iv) Musi	199.1	197
6.	Link Canal		
	i) Length of canal (including tunnel)	299.256 km	
	ii) Design discharge of canal	1090 cumec	
	iii) Bed width of canal		
	a) Deep cutting	98.10 m	
	b) Normal cutting	109.60 m	
	iii) Full supply depth of canal		
	a) Deep cutting	7.40 m	
	b) Normal cutting	6.75 m	
	v) Bed slope of canal	1 in 20000	
	vi) Off-take level of link canal	106.00 m	
	vii) F.S.L. at tail end of link canal	180.254 m	
	viii) Side slope		
	a) Deep cutting	0.5: 1	
	b) Normal cutting	1.5: 1	
	ix) Type of canal	Lined canal Trapezoidal section with rounded corners	
	x) Length of tunnel	9.150 km	
	xi) Gradient of tunnel	1 in 5000	
	xii) Type of tunnel	Modified horse-shoe section of radius 8.00 m	
	xiii) Lifts	Static head.	
	a) Stage – I at RD 0.0 km	35.00 m	

	b) Stage – II at RD 18.0 km	38.00 m
	c) Stage – III at RD 26.5 km	23.00 m
	d) Stage – IV at RD 60.5 km	11.00 m
	e) Total static lift	107.00 m
7.	Lead Canal	
	i) Length of canal	21.85 km
	ii) Designed discharge	16 cumec
	iii) Bed width of canal	
	a) Deep cutting	7.00 m
	b) Normal cutting	9.00 m
	iii) Full supply depth	
	a) Deep cutting	1.90 m
	b) Normal cutting	1.65 m
	v) Bed slope	1 in 7500
	vi) Off-take level	204.90 m
	vii) F.S.L. at tail	256.527 m
	viii) Side slope	
	a) Deep cutting	0.5: 1
	b) Normal cutting	1.5: 1
	ix) Type of canal	Lined canal Trapezoidal section with rounded corners
	x) Lifts	Static head
	a) Stage – I at RD 0.0 km	40.00 m
	b) Stage – II at RD 21.00 km	15.00 m
	c) Total static lift	55.00 m
8.	1. Installed capacity (reversible pump turbines)	13x 75 MW
	2. Peaking power	975 MW
9.	Estimated Cost	Rs. 26289 Crore
10.	B.C.ratio	
	i) Annual benefits	Rs.1217 crore
	ii) Annual Cost	Rs. 541 crore
	iii) B.C.ratio	2.25
	iv) I.R.R.	
	a) Without distributional and employment effect	14.81%
	b) With distributional and employment effect	17.86%