

## TURI-GUNTAT IRRIGATION PROJECT SALIENT FEATURES

I. General	Turi	Guntat
1.State	Odisha	Odisha
2.District	Nawarangpur	Nawarangpur
3.Sub Division	Nawarangpur	Nawarangpur
4.Village	Chatahandi	Deula
5. River	Turi Guntat	
6. Location	Lat 19 <sup>0</sup> 16' 55" N. Long 82 <sup>0</sup> 26' 24" E.	Lat 19 <sup>0</sup> 15' 29" N. Long 82 <sup>0</sup> 26' 24" E.
7. Topo sheet	65 I/7, 65 I/8, 65 I/10, 65 I/11, 65 I/3,65 I/4 and 65 I/6 Scale(1:50,000)	
8. Blocks to be benefitted	Kosagumunda and Nawarangpur	
II. Hydrology		
1. Catchment Area	381.00 Sq km.	231.00 Sq km.
2. Rainfall		
a. Max. Ann Rainfall	1784.65 mm.	1879 mm.
b. Min. Ann rainfall	874 mm.	845 mm.
c. Av. Ann Rainfall	1418 mm.	1509 mm.
d. 75% dependable annual yield (mm)	622.00	643.00
e. 75% dependable annual yield (M Cum)	236.95	148.59
III. Flood		
Design Flood at Barrage site	2724 Cumecs	1726 Cumecs
IV. Principal Level		
1. T.B.L	568.50 m.	566.50 m.
2. H.F.L	566.00 m.	564.50 m.
3. Pond Level	563.00 m.	562.00 m.
4. F.S.L of Canal	562.50 m.	561.50 m.
a) Barrage bays	558.00 m.	557.00 m.
b) Under Sluices	557.00 m.	556.00 m.
5. Average B.L of River	557.435 m.	556.210 m.
6. Deepest B.L of river	556.765 m.	555.775 m.

## V. Submergence

a. Govt. Land	84.00 Ha.	78.00 Ha.
b. Private land	56.00 Ha.	52.00 Ha.

## VI. Barrage and Afflux Bunds

### a. Barrage

1. Type	Concrete	Concrete
2. Length of Barrage	136.00 m.	98.00 m.
3. Number of Bays	7 Nos.	6 Nos.
4. Size of Gate	10.00 m. x 5.00 m. 10.00 m. x 6.00 m.	10.00 m. x 5.00 m. 10.00 m. x 6.00 m.
5. Number of under sluices	4 Nos.	2 Nos.
6. Size of under sluice gate	10.00 m. x 6.00 m.	10.00 m. x 6.00 m.
7. Type of Gate	Vertical	Vertical

## VII. Details of Command Area

1. G.C.A	10300 Ha.
2. C.C.A	9135 Ha.
3. Intensity of Irrigation	88 %
Irrigation	
a. Kharif	8000 Ha.
b. Annual Irrigation	8000 Ha.

## VIII. Canal System

### Turi Main Canal

1. Discharge	4.49 Cumecs
2. Length	25.60 Km.
3. C.C.A	4488 Ha.

### Guntat Main Canal

1. Discharge	3.95 Cumecs
2. Length	10.20 Km.
3. C.C.A	4200 Ha.

### Bikrampur Main Canal

1. C.C.A	447 Ha.
2. C.C.A of the project = (4488 Ha. + 4200 Ha. + 447.00 Ha.) = 9135 Ha.	