

**Office of the Superintending Engineer,  
Angul Investigation Division  
Angul-759143**

(E.Mail-seidangul@gmail.com)

Letter No 1678/WE /Dated- 12.12.2024

To

The Divisional Forest Officer,  
Athmallik Forest Division, Athmallik

**Sub:** Proposal for diversion of 153.938 ha of forest land for construction of Kutulisinga Irrigation Project in Athmallik Forest Division of Angul District—**compliance of the Cost Benefit Analysis- regarding.**

Sir,

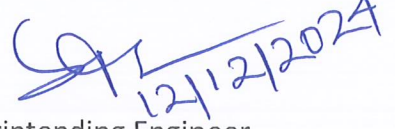
In inviting a kind reference to the subject cited above, we would like to furnish herewith the compliance of the observations raised by your office on **Parivesh Portal 1.0 dated 07.12.2024** before recommendation and necessary approval of the proposal to RCCF, Angul.

SL. No.	Observations raised by Divisional Forest Officer, Athmallik	Compliance with the Observations
1	The cost-benefit analysis submitted by the user agency is not adequately justified and lacks clarity in correlating the proposed benefits with the costs involved. You are requested to provide a revised and well-justified cost-benefit analysis detailing the benefits in monetary terms as per the guidelines.	The Cost Benefit Analysis submitted by the office of the Angul Investigation Division, Dept. of Water Resources, Govt. of Odisha is hereby justified, revised details of the benefits is submitted herewith in monetary terms as per the guidelines.

The Cost Benefit analysis is **enclosed herewith justified Annexures-I, II, III** for your kind information and necessary action.

**Encl: as above**

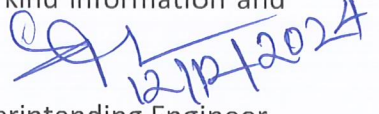
Yours faithfully,

  
12/12/2024  
Superintending Engineer,  
Angul Investigation Division,

Angul


Memo No 1679 / Dt 12.12.2024

Copy submitted to PCCF (FD&NO) FC Act, Bhubaneswar for favour of kind information and necessary action.

  
12/12/2024  
Superintending Engineer

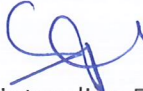
Memo No 1680 / Dt 12.12.2024

Copy submitted to Chief Engineer, Planning, Bhubaneswar, Odisha/ Chief Engineer, Survey & Investigation, Bhubaneswar, Odisha for favour of kind information and necessary action.

  
12/12/2024  
Superintending Engineer

Memo No 1681 / Dt 12.12.2024

Copy submitted to Regional Chief Conservator of Forests, Angul Circle, Angul, Odisha for favour of kind information and necessary action.

  
12/12/2024  
Superintending Engineer


Memo No 1682 / Dt 12.12.2024

Copy submitted to Addl. Chief Engineer, Central Investigation Circle, Bhubaneswar for favour of kind information and necessary action.

  
12/12/2024  
Superintending Engineer

**Parameters for Evaluation of Benefits not withstanding Loss of Forests**  
**For**  
**Kutulisingha Irrigation Project**  
**Athmallik Forest Division, Odisha**

Sl. No.	Parameters	Remarks
1.	Increase in productively attribute due to this project	<b>165.23 Cr</b>
2.	Benefit to the economy due to this project	<b>354.80 Cr</b>
3.	No of population benefited due to this project	1,10,548
4.	Economic benefits due to direct and indirect employment due to this project	<b>569.32 Cr.</b>
5.	Economic benefits due to Compensatory afforestation	<b>16.85 Cr.</b>
<b>(Benefits)Total</b>		<b>1106.20 Cr.</b>

  
**Superintending Engineer**  
**Angul Investigation Division**  
**Angul**  
Superintending Engineer  
Angul Investigation Division  
Angul

### Cost Benefit Analysis Ratio

Benefit to Economy: Rs.1106.20

Loss of Forest and Environment:

Ratio: 1:


CA 1  
12/12/2024  
Superintending Engineer  
Angul Investigation Division  
Angul

## Kutulisingha Irrigation Project

Annexure -I

### Benefit

		<u>All amounts in lakhs</u>	
		<u>Before</u>	<u>After</u>
		<u>Project</u>	<u>Project</u>
<b>A</b>	<b>GROSS RECEIPT</b>		
	1 GROSS VALUE OF FARM PRODUCE	2764.40	26144.00
	2 DUNG RECEIPT (30% of B5)	124.40	784.32
	TOTAL OF A-GROSS RECEIPT	2888.80	26928.32
<b>B</b>	<b>EXPENSES</b>		
	1 Expenditure on seeds	33	360
	2 Expenditure on manure	124	488
	3 Expenditure on fertiliser	564	976
	4 Expenditure on labour	250.25	2719.2
	<b>Total</b>	<b>971.25</b>	<b>4543.2</b>
	5 Fodder Expenditure 15% for pre and 10% for post of A1	414.66	2614.4
	6 Depreciation 2.7% of A1	74.64	705.89
	7 Share and Cash rent 5% for pre 3% for post of A1	138.22	784.32
	8 Land revenue 2% of A1	55.288	522.88
	Total expenses of B	1654.06	9170.69
<b>C</b>	<b>Net Value of Farm produce</b>		
	1 Total gross receipt	2888.80	26928.32
	2 Total expenses	1654.06	9170.69
	3 Net value (1- 2)	1234.74	17757.63
		<b>in Crores</b>	<b>177.58</b>

  
 12/12/2024  
 Superintending Engineer  
 Angul Investigation Division  
 Angul

<b>D Annual Benefits</b>	
1 Net value after project	17757.63
2 Net value before project	1234.74
3 Net annual benefit (1-2)	16522.89
	<b>in Crores 165.23</b>

**Increase in productively attribute due to this project is 165.23 Crore.**

<b>E Capital cost of the project</b>	
1 Total cost of the project	15487
2 Cost Of Land Development for 50% of CCA @ Rs.20000/- ha,i.e, 2540*50% *20000	254

**Total of the project cost 15741**

<b>F Annual cost of the project</b>	
1 Interest on capital @ 10% of capital cost	1574.10
2 O & M CHARGES @ 1400/ha	35.56
3 Depreciation 2% of civil cost	309.74
4 O & M 1% of Head works	62.41
<b>Total of F (annual cost)</b>	<b>1981.81</b>

**Benefit to the economy due to this project=** Net value of farm produce + Total of the project cost + Total of F (Annual Cost) (in Lakhs)  
**= 17757.63+15741+1981.81**  
**= 35480.442 Lakhs**  
**= 354.80 Crores**

*CA 12/12/2024*  
**Superintending Engineer**  
**Angul Investigation Division**  
**Angul**

GENERAL ABSTRACT OF COST				
PRICE LEVEL - 2024				
Sl.No.	Sub -Head of classification	Cost in Lakhs		
		Unit-I	Unit-II	Total Cost
1	2	3	4	5
<b>Works</b>				
1	A-Preliminary	404.520	216.400	620.920
2	B-Land	235.872	4952.400	5188.272
3	C-Works	24965.760	0.000	24965.760
4	D-Regulator	0.000	205.184	205.184
5	E-Fall		120.400	120.400
6	F-Cross Drainage Works		1163.864	1163.864
7	G-Bridges		1339.952	1339.952
8	K-Building	679.328	679.320	1358.648
9	L-Earth Works		3934.840	3934.840
10	L1-Service and Boundary Roads		223.360	223.360
11	M-Plantation	57.144	110.408	167.552
12	O-Miscellaneous	381.64	163.56	545.200
13	P-Maintenance	258.8	157.52	416.320
14	Q-Special T & P	45.64	19.56	65.200
15	R-Communication	236.672	47.56	284.232
16	U-Distributary & Minors		8037.14	8037.140
17	X-Ecology & Environment	8055.76	135.492	8191.252
18	Y-Losses on Stocks	64.72	39.36	104.080
<b>Total</b>		<b>35385.856</b>	<b>21546.320</b>	<b>56932.176</b>

**Economic benefits due to direct and indirect employment due to this project=**

**569.32 Crores**

*SA 12/12/2024*  
**Superintending Engineer**  
**Angul Investigation Division**  
**Angul**

ABSTRACT OF THE TOTAL POPULATION OF ANGUL DISTRICT AS PER 2011 CENSUS												
BLOCK NAME	T SC	SC W	SC M	T ST	STW	STM	T O	OW	OM	TOTAL	TW	
ANGUL	32734	16524	16210	18001	9001	9000	116067	59418	56649	166802	84943	
ATHMALLIK	18037	8945	9092	26452	13128	13324	66059	33161	32898	110548	55234	
KANIHA	31007	15931	15076	12096	6208	5888	100653	52986	47667	143756	75125	
KISHORENAGAR	16086	8149	7937	21638	10656	10982	70090	35530	34560	107814	54335	
CHHENDIPADA	35818	18025	17793	17890	8955	8935	113043	58320	54723	166751	85300	
TALCHER	26527	13641	12886	13167	6646	6521	102861	54704	48157	142555	74991	
PALLAHARA	19786	9943	9843	50397	25303	25094	58946	30421	28525	129129	65667	
BANARPAL	41221	20930	20291	7329	3636	3693	141230	73840	67390	189780	98406	
<b>TOTAL</b>	<b>221216</b>	<b>112088</b>	<b>109128</b>	<b>166970</b>	<b>83533</b>	<b>83437</b>	<b>768949</b>	<b>398830</b>	<b>370569</b>	<b>1157135</b>	<b>594001</b>	

No of population benefited due to this project is 1,10, 548.

*CA 21/2/2024*  
**Superintending Engineer**  
**Angul Investigation Division**  
**Angul**