PARAMETERS FOR EVALUATION OF LOSS OF FOREST

Sl. No	Parameters	Medium & major irrigation, hydro electric, large mining & other misc. Projects.	Losses of forest in monetary terms
1.	Loss of value of timber, fuel wood and minor forest produce on an annual basic, including loss of man-hours per annum of people who derived livelihood and wages from the harvest of these commodities.	There is no population in the proposed portion of canal and nearby village who are deriving their livelihood wages from the forest.	Nil
2	Loss of animal husbandry productivity, including loss of fodder	As the forest is the nature of open forest. There are no animal husbandry taking place in the purposed area. There is no loss of animal husbandry productivity and fodder.	Nil
3	Cost of human resettlement	There are no settlement in the proposed portion of the canal.	Nil
4	Loss of public facilities and administrative infrastructure (Rods, building, schools, dispensaries, electric lines, etc.)	There is no building, school, dispensaries, electric lines in the proposed portion of canal.	Nil
5	Environmental losses: (soil erosion, effect on hydrological cycle, wildlife habitat, microclimate upsetting of ecological balance	Density of vegetation = 0.3 Cost of 0.3 density forest for 127.85 ha. @Rs. 38.022 lakhs = Rs.4861.1127 lakhs	Rs.4861.11 lakhs

6	Suffering to oustees	There is no settlement in the proposed portion, so there is no suffering oustees.	Nil

Total loss of forest in monetary terms :– Rs. 4861.11 lacs

Cost of project :- Rs. 34110.91 lacs

Land development @ Rs. 7012/Hac.

On 20% of C.C.A = 7012 x 0.20 x 26990 = Rs. 378.50 lacs

Total cost of project Rs. 39350.92 lacs

24-8-16

Divisional Forest Officer
Medininagar Forest Division, Medininagar

12/8/16

Executive Engineer
Aurang... ...struction
Division, Panki
Camp-Medininagar

PARAMETERS FOR EVALUATION OF BENEFIT, NOTWITHSTANDING LOSS OF FORESTS

Sl. No	Parameters	Nature of proposal Medium & major irrigation, hydro electric, large mining & other misc. Projects.	Benefit in monetary terms
1	Increase in productivity attributable to the specific project	Net post project benefit as per annex.- ii – Rs. 5168.59 lacs Net pre project benefit as per annex.-i (-)Rs. 174.708 lacs Total benefit in one year Rs. 4993.882 lacs Project is Designed for Fifty Years Benefit taken for twenty years only = 20 x 4993.882 = Rs.99877.64 lacs	Rs.99877.64 lacs
2	Benefits to economy	–	Nil
3	No. Of population benefited	Around one lacs residing in the ares and nearby village get benefitted by the canal.	Nil
4	Employment potential	Direct employment of local labours from this project @15% of the project cost i.e 34110.91 x 0.15	Rs.5116.64 lacs
5	Cost of acquisition of facility on non-forest land wherever feasible	NA	Nil
6	Loss of (a) agriculture & (b) animal husbandry production due to diversion of forest land	There is no animal husbandry activity.	Nil
7	Cost of rehabilitating the displaced persons as different from	There is no displacement in the proposed area.	Nil

	compensatory amounts given for displacement.		
8	Cost of supply of free fuel-wood to workers residing in or near forest area during the period of construction.	Workers are fully paid in cash there will be no facility of free supply of fuel wood to the workers during the construction period.	Nil

Total direct and indirect benefit from the project is = 99877.64 lacs + 5116.64 lacs

= 104994.28 lacs

Hence benefit cost ratio = Total benefit from the project/ Total cost of the project

$$= \frac{104994.28 \text{ lacs}}{39350.92 \text{ lacs}} = 2.66$$

B.C Ratio = 2.66

As the B.C. Ratio is more than 1.00 the project is justified.

12/8/16

Executive engineer
Auranga construction div.panki
Camp - medininagar

Divisional Forest Officer
Medininagar Forest Division, Medininagar

STATEMENT FOR ESTIMATE OF AGRICULTURAL PRODUCE POST IRRIGATION CONDITION FOR AMANAT BARRAGE & AURANGA RIGHT MAIN CANAL SYSTEM FROM PANKI BARRAGE TO R.D. 295.00, CCA 26690 Hect.

Name of crop as per cropping pattern of post irrigation	Cropped area in ha.	Receipts (Value of farm)						Expenses (Rs.)						Total expenses of outlat in Rs. Lacs
		Yield per ha in Quintal	Total yield in lac MT	Rate in Rs/MT	Total value in Rs. Lacs	Fooder during receipt 3% of col-6	Total receipt in Rs. Lacs	Seed per ha.	Mannure per ha.	Pesticides /ha.	Human labour / ha.	Animal labour / ha.	Total /ha.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Peddy 100% of CCA	26990	50	1.35	6000	8097	242.91	8339.91	400	1350	200	2500	2050	6500	1754.35

Receipts - Gross value of farm work (total of Col. 8) = Rs. 8339.91

Expenses - (a) Agriculture total value of inputs (Total of col. 15) = Rs. 1754.35

(b) Fooder expences @ 10% of gross value (col. 6 = Rs. 809.70

(C) Depreciation on implements @2.7% of col. 6 = Rs. 202.42

(d) Share & cost rent @3% of col. 6 = Rs. 242.91

(e) Land revenue @2% of col. 6 = Rs. 161.94

Rs. 3,171.32

Net post project benefit R-E = Rs. 5168.59 Lacs

24.8.16
Divisional Forest Officer
Medininagar Forest Division, Medininagar

12/8/16
Executive Engineer
Auranga Construction
Divisio- Panki
Camp-Medininagar

41

STATEMENT FOR THE ESTIMATE OF AGRICULTURAL PRODUCE PRE- IRRIGATION CONDITION FOR AMANAT BARRAGE & AURANGA RIGHT MAIN CANAL SYSTEM FROM PANKI BARRAGE TO R.D. 295.00 CCA 26990 Hect.

Name of crops	Cropped area in ha.	Receipts (Value of farm)						Expenses (Rs.)						Total expenses in inputst in Rs. Lacs
		Yield in Quintal	Total yield in MT	Rate of yield /MT	Value of yield Rs. Lacs	Fooder receipt4.5% of col-6	Total receipt in Rs. Lacs	Seeds	Mannure	Pesticides	Human labour	Animal labour / ha.	Total /ha.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Peddy 44% of CCA	11358.8	10	11358.8	6000	681.528	30.67	712.198	400	1000	50	1200	600	3250	369.16

Gross value of farm receipts (total of Col. 8) = Rs 712.198 Lacs

Expenses on Agriculture

(a)Total value of inputs (Total of col. 15) = Rs 369.16 Lacs

(b) Fooder expencex @ 10% of gross value (col. 6 = Rs 102.23 Lacs

(C) Depreciation on implements @2.7% of col. 6 = Rs 18.40 Lacs

(d) Share & cash rent @5% of col. 6 = Rs 34.07 Lacs

(e) Land revenue @2% of col. 6 = Rs 13.63 Lacs

Rs 537.49 Lacs

Net pre- project benefit = R-E = Rs 174.708 Lacs

24-8-16

Divisional Forest Officer
Medininagar Forest Division, Medininagar

12/8/16

Executive Engineer
Auranga Construction
Division Panki
Camp-Medininagar