<u>Table B- Estimation of cost of forest diversion (as per MoEF & CC Guideline dated 1st Aug 2017 related to cost benefit analysis)</u>

Sl. No.	Parameters	Remarks (Rupees in lakhs)
1	Ecosystem Services losses due to proposed forest	Rs. 6685.10
	diversion. NPV of the forest land being diverted i.e.	
	(Eco class value-III Tropical Dry Deciduous Open	
* * .	Forest) Forest land 697.979 ha @ Rs. 9,57,780 lakhs	
2	Loss of animal husbandry productivity including loss of fodder (10% of NPV)	668.510
3	Coat of human resettlement.	No R & R is involved
4	Loss of public facilities & administration infrastructure (Roads, building, school, dispensary,	Not applicable, Since these facilities are not
	electric lines, railway etc.) on forest land.	available inside the forest
		area for proposed
		diversion.
5	Possession value of forest land diverted (30% of	
	environmental cost (NPV) due to loss of forest or	2
	circle rate of adjoining area in the district should be	2005.531
	added as a cost component as possession value of	
	forest land whichever is maximum).	0 2
6	Cost of suffering of oustees	Not applicable since there
		will be no displacement
		of peoples.
7	Habitat Fragmentation Cost (While the relationship	
	between fragmentation and forest goods and	
9	services is complex, for the sake of simplicity the	3342.552
8 8 8	cost due to fragmentation has been pegged at 50%	
	of NPV applicable as a thumb rule)	
8	Compensatory Afforestation and Soil & Moisture	12618.5940
	Conservation Cost	g - 2
Total Los	s (Against the proposed forest land diversion)	Rs. 25320.287

Chittaranjan Pati
General Manager (Mech.)
Pottangi Mines Project
M&R Complex, NALCO
Damanjodi - 763008

Table C-Estimation of Benefit of Forest Diversion in Cost Benefit Analysis (as per MoEF & CC Guideline dated 1st Aug 2017 related to cost benefit analysis)

2 3 4	Increase in Productivity attribute to the specific project considering average Bauxite Oore price @ Rs. 1300 per tonne X 40 MT. Benefit to economy due to the specific project No of population benefited due to specific project 50000 Economic benefit due to direct and indirect employment due to the project	52000.00
3 4	tonne X 40 MT. Benefit to economy due to the specific project No of population benefited due to specific project 50000 Economic benefit due to direct and indirect employment due to the project	52000.00
3 4	project No of population benefited due to specific project 50000 Economic benefit due to direct and indirect employment due to the project	52000.00
4	specific project 50000 Economic benefit due to direct and indirect employment due to the project	
R 4	indirect employment due to the project	
5	Direct: 551 (Approx) Indirect: 1000 (Approx)	
	Economic benefits due to Compensatory Afforestation. (The benefit from such Compensatory Afforestation accruing over next 50 years magnetized and discounted to the present value should be included as benefit by Compensatory Afforestation). For next 50 years the estimated cost of NPV for present value is taken as benefit by Compensatory	89676.3518
	Afforestation i.e. Present value $x (i + i)^N$ = 12618.5940 $x (1+0.04)^{50}$ (i = interest, N=Time)	Rs. 661676.3518

COST BENEFIT RATIO OF THE PROJECT

- 661676.3518 Benefit

- 25320.287 Loss

Ratio - 1: 26.13

Authorised Signatory Pottangi Mines Project
M&R Complex, NALCO

Damanjodi - 763008

Divisional Forest Officer Koraput Forest Division